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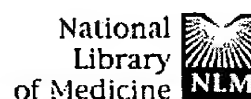
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☐ 1: *Curr Opin Struct Biol* 2001 Feb
1;11(1):70-82

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Mechanisms of protein folding.

Grantcharova V V, Alm EJ, Baker D, Horwich AL

Center for Genomics Research, Harvard University, 02138, Cambridge,
MA, USA

Related Resources

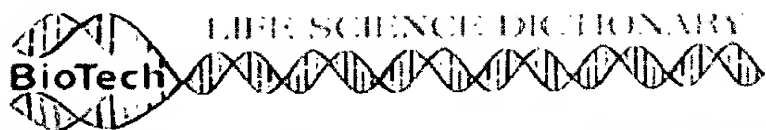
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The strong correlation between protein folding rates and the contact order suggests that folding rates are largely determined by the topology of the native structure. However, for a given topology, there may be several possible low free energy paths to the native state and the path that is chosen (the lowest free energy path) may depend on differences in interaction energies and local free energies of ordering in different parts of the structure. For larger proteins whose folding is assisted by chaperones, such as the *Escherichia coli* chaperonin GroEL, advances have been made in understanding both the aspects of an unfolded protein that GroEL recognizes and the mode of binding to the chaperonin. The possibility that GroEL can remove non-native proteins from kinetic traps by unfolding them either during polypeptide binding to the chaperonin or during the subsequent ATP-dependent formation of folding-active complexes with the co-chaperonin GroES has also been explored. Copyright 1999 Academic Press.

PMID: 11179895

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Searched Word	chaperone
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1. chaperone

Author: Leo M. Hall

Definition:

A heat shock protein that assists in the proper folding of other proteins.

END

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chaperonin

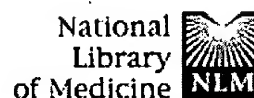
<cell biology> Subset of chaperone proteins found in prokaryotes, mitochondria and plastids major example is prokaryotic GroEL (the eukaryotic equivalent of which is hsp60).

(18 Nov 1997)

Previous: [channel protein](#), [channel transport](#), [chanoclavin-I-cyclase](#), [chaparral](#), [chaperone](#)

Next: [chaperonin 10](#), [chaperonin 60](#), [chaperonins](#), [chaplaincy service](#), [hospital](#)

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Constituting a receptor-ligand information base from quality-enriched data.

Hemm K, Aberer K, Hendlich M

GMD-IPSI, Darmstadt, Germany.

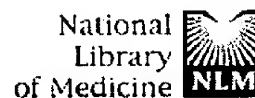
Related Resources

Many different resources are needed for analyzing relevant experimental data in drug design. Currently this data is difficult to access, because it is stored in heterogeneous databases, spread over many platforms, poorly interconnected, incomplete, erroneous, or just not electronically available. In order to establish a high quality database for drug design we have developed a new demand-driven methodology for integrating and semantically enriching heterogeneous data from different research areas and for migrating the data into an object-oriented database management system. In this way we have established a database containing well-prepared, relevant data needed for drug design and offering the advantages of modern database technology, like a comprehensive object-oriented data model, a flexible declarative query language and support for persistent storage and sharing of data in a multi-user environment. Copyright 2000 Wiley-Liss, Inc.

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☐ 1: *Ann N Y Acad Sci* 1997 May 30;812:1-244[Related Articles, Books](#)

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Receptor Classification: The Integration of Operational, Structural, and Transductional Information. Proceedings of a conference. Verona, Italy, September 21-22, 1995.

Publication Types:

- Congresses
- Overall

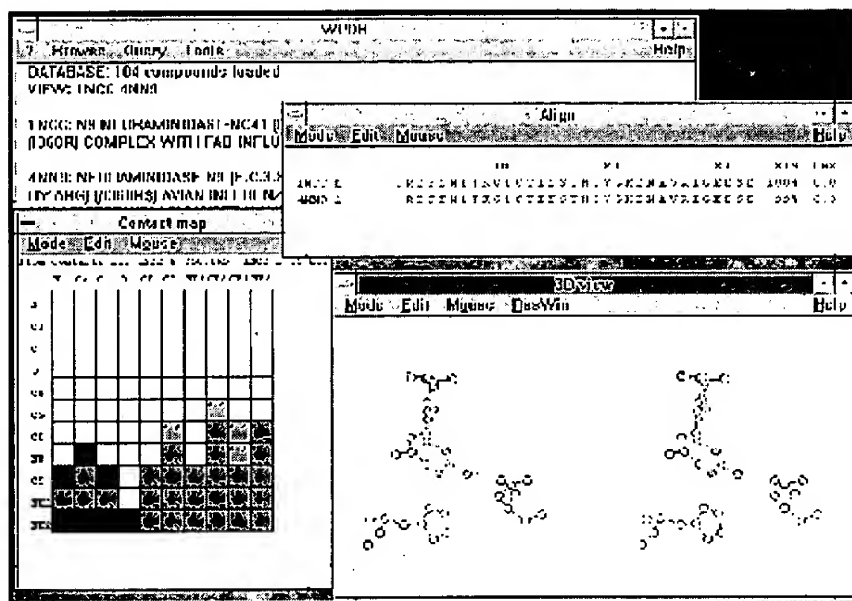
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WPDB - The Protein Data Bank Through Microsoft Windows



Last Update Jan. 24, 1998 PEB

Current Version 2.2

NEW CDROM Available with over 6000 structures. Send email to pdbadmin@sdsc.edu requesting a copy.

Contents

- What is WPDB?
- Features
- Typical Uses
- Learning by example
 - Example 1 - Comparison of alpha and beta chains of human hemoglobin
 - Example 2 - Searching for buried residues in lysozyme
 - Example 3 - Thermal motion in a toxic loop
 - Example 4 - Changes in a neuraminidase upon virus binding
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- How to get WPDB
- Building your own databases with WPDBL
- References and Citing WPDB
- Frequently Asked Questions
- Contact information and Mailing List
- Future Directions

What is WPDB?

The PDB through Microsoft Windows, or WPDB for short, is a Microsoft Windows 3.1 Windows95 and Windows NT (client and server) based program to interrogate the 3-dimensional structure of biological macromolecules as found in the Protein Data Bank (PDB) using query and display tools like those shown above.

Features

The features supported by WPDB are divided into 2 categories, those that have scientific merit and those considered to be computationally interesting.

Scientific:

1. Find structures based on text and sequences searches (mismatches allowed).
2. Sequence alignment of one register sequence against multiple target sequences according to the method of Needleman and Wunsch (*JMB* **48**(3): 443-453, 1970).
3. Structure superposition using Calpha positions according to the method of Hendrickson (*Acta Cryst.* **A35**:158-163, 1979).
4. Secondary structure assignments according to the method of Kabsch and Sander.
5. Amino acid property profile analysis, both static and dynamic: static according to the values compiled by Bogardt et al.; dynamic, mean exposure according to Lee and Richards (*JMB* **55**:379-400, 1971) and experimental B factors. Profiles for a single polypeptide chain or difference profiles for two aligned polypeptide chains may be examined.
6. Contact map analysis at different cut-off distances and with different atom groups in contact. Single structures or superimposed structures (difference contact maps) can be examined.
7. Typical 3-D viewing and rendering, including options to display or highlight substructures, CPK representation, stereo, and simple surfaces (colored based on distance from user).
8. Geometry calculation (bond lengths, bond angles, dihedral angles, close non-bonded contacts) including graphical representation and deviations from small molecule distances.

Computing:

1. Data compression -- about a 20-fold reduction in storage over the PDB ASCII file distribution, but with: (i) bibliographic information limited to AUTHOR and JRNL records; (ii) optionally the first or all members of an ensemble of NMR or model structures included; (iii) only the first alternative conformation as defined in the PDB file for parts of a crystal structure with partial occupancies; (iv) atomic coordinates rounded to 2 and not 3 decimal places; (v) no PDB REMARK records.
 2. Interoperable display objects -- when a feature is selected in one display object (e.g. a contact map), all other visible display objects (e.g. 3-D viewer) and those invoked subsequently, are also updated to illustrate that feature.
 3. Direct access to Raswin the popular molecular display program.
 4. Synchronized printed documentation and context sensitive help created using the DocToHelp package.
-

Typical Uses

- Analysis of protein-protein and protein-ligand interactions.
 - Analysis of internal interactions in proteins to reveal different folds (e.g. helix-helix hydrophobic stacking).
 - Analysis of sequence-structure correlation's using sequence search and static property profiles.
 - As above with sequence homology and structure superposition.
 - Analysis of thermal motion using dynamic property profiles.
 - Locate structures based on string searches of combinations of PDB record types and/or sequence patterns.
 - Basic molecular rendering.
 - Basic geometry checking.
-

How to Get WPDB

WPDB is available via anonymous ftp from <ftp.sdsc.edu> in the directory [/pub/sdsc/biology/WPDB](ftp://pub.sdsc.edu/biology/WPDB). The distribution is organized into 6 parts:

1. [wpdbbin.zip](#) [.7MB] - the executables and documentation (a Microsoft help file). Includes raswin the molecule display program called directly from WPDB.
2. [wpdb100r.zip](#) [2.1MB] - a small test database of 100 structures, including PDB REMARK records.
3. [wpdb420r.zip](#) [9.8MB] - 420 "unique structures," including PDB REMARK records
4. [full_1.zip](#) [68.9MB] and [full_2.zip](#) [16.6MB] the complete PDB in two parts (both required).
5. [wpdbps.zip](#) [.5MB] - program manual in color Postscript.
6. [install](#) - installation script (DOS)

Only one of 2-4 is required. All files are compressed using pkzip. The program pkunzip.exe (runs under DOS) is available in the distribution directory if needed.

The loader (WPDBL) for building your own WPDB database is available [here](#) also.

[\[Download\]](#)

Building Your Own Databases with WPDBL

The software to build your own databases is called WPDBL and is available in the same location as WPDB. The basic steps in building a database are:

1. Select a group of PDB files using the file selector.
2. Optionally select whether PDB REMARKS, different members of an NMR ensemble etc. are to be included
3. Build the database

Note:

- An "average structure" takes from 1-5 minutes to load depending on type of processor.
- An existing database can be incremented.

[\[Download\]](#) | [\[Example\]](#)

References and Citing WPDB

Those using WPDB should cite:

I.N.Shindyalov and P.E.Bourne *J. App. Cryst.* 1995, **28**(6) 847-852. WPDB A PC-based Tool for Analyzing Protein Structure. [\[Postscript\]](#)

Further details of the data model used by WPDB can be found in I.N.Shindyalov and P.E. Bourne *CABIOS* 1997, Submitted. Protein Data Representation and Query Using Optimized Data Decomposition.

Contact Information and Mailing List

[Need help?](#)

Contact the authors: [Ilya Shindyalov](#) and [Phil Bourne](#)

Join the mailing list: send mail to majordomo@sdsc.edu with the body of the message containing subscribe wpdb

Future Directions

Some of the enhancements that we are working on for v3.0 are as follows..

- 32-bit only version
 - CDROM distribution - this depends on an amendment to the PDB licensing agreement for non-profit distribution.
 - Extended query capability like that found in [MOOSE](#)
 - Links to external databases via the Internet
 - A more intuitive Windows look and feel.
-



DOCKING-D

Goal

The main focus of pharmaceutical research is to create new drugs. Drugs develop their biological effects by docking to receptors which are biomolecules, according to the so-called key-lock principle. In rational drug design the goal is to find and design new potential drugs, so called lead substances, by analyzing existing geometrical and physico-chemical data about small molecules or ligands and proteins, which serve as receptors. As a member of the consortium for the "Computation and Prediction of Receptor-Ligand Interaction" GMD-IPSI participates in the national joint project RELIWE funded by the German Federal Ministry for Science and Technology BMBF. Goal of RELIWE is the development of new algorithms and database concepts that allow to develop models of receptor-ligand complexes by combining tools for model building, docking and database search.

Docking-D is the part of RELIWE which considers heterogeneous database support and in which GMD-IPSI with its expertise takes a leading role. The results of RELIWE are a step towards a goal-oriented design of diagnostics and pharmaceuticals, with a perspective of enormous economic and social importance.

Scenario

Due to new methods for determining the three-dimensional structure of proteins the available data for rational drug design is currently growing enormously. The receptor and ligand data, either raw data or data derived during analysis, is extremely heterogeneous. In pharmaceutical companies there exist proprietary databases containing several 100.000 known ligands. Public databases contain the structures of currently approximately 2000 proteins and over 100.000 protein sequences and reach a size of several 100MB. Other data like mutations, homology data or secondary structures is scattered in different private and public databases. A number of tools, like receptor-ligand docking algorithms, model building tools for receptors or visualization tools, are based on these data. The challenge is to integrate this data and tools for the analysis of receptor-ligand-docking. We use the object-oriented database management system VODAK for this purpose. We have developed a database schema that allows to represent all the data with its complex relationships and algorithms (ReLiBase schema). In order to integrate the data from heterogeneous resources we proceed in two phases. First the data is analyzed, corrected and enriched by the industrial partners by special purpose tools. As a result, we obtain data files and a specification of how to integrate the data. The specification is given in a specially developed language. In a second phase the data files and the integration specification are automatically converted into the internal database system representation, and then interconnected and indexed. In this way we obtain the integrated object-oriented receptor-ligand database ReLiBase.

Application

The main application of ReLiBase is posing associative queries for analyzing the available data. In these queries one exploits the object relationships derived from different databases and algorithms available with ReLiBase. A typical query would be: Find all receptor-ligand complexes where the receptor is

evolutionary similar to a specific protein and the ligand has a specific substructure. The query is posed in a SQL-like declarative language. For answering this query data from the Brookhaven structure database PDB, from ligand databases and from a computed homology database is needed. Additionally, a substructure search algorithm for ligands is used. For optimized access a precomputed substructure index for frequently used ligand fragments can be exploited. For optimized query evaluation application-specific knowledge, like algorithm cost or the existence of application-specific indexes has to be considered. To accomplish this is one of the major research tasks within this project and the VODAK department. As a member of the consortium for the "Computation and Prediction of Receptor-Ligand Interaction" two institutes of GMD, the Integrated Publication and Information Systems Institute, GMD-IPSI, Darmstadt, and the Institute for Methodological Foundations, Sankt Augustin, participate in the national joint project RELIWE funded by BMFT Germany. Other participants in this project are the European Molecular Biology Laboratory EMBL, Heidelberg, and two industrial partners, BASF, Ludwigshafen, and Merck, Darmstadt. The project started in April 1993.

Partners

GMD-IPSI cooperates with

- European Molecular Biology Laboratory EMBL, Heidelberg,
- BASF, Ludwigshafen,
- Merck, Darmstadt and
- GMD-SCAI, Sankt Augustin

The project started in April 1993 and will expire in February 1997. Consecutive exploitation of the results is planned.

Start ReLiBase

Publications

Demand-driven Database Integration for Biomolecular Database Applications

Karl Aberer

Electronic proceedings of the Meeting on the Interconnection of Molecular Biology Databases (MIMBD) '94, Stanford University, August 9-12, 1994

We describe the bioinformatics database research at GMD-IPSI within the Docking-D project and the approach to database integration pursued within that project.

Extended abstract.

The Use of Object-Oriented Data Models for Biomolecular Databases

Karl Aberer

Proceedings of OOCNS 95 (Object-Oriented Computing in the Natural Sciences), Heidelberg, Germany, 1995

This paper reflects some experiences on the use of object-oriented data models for biomolecular databases, that were gained during the work on the Docking-D project, where object-oriented database technology is used to build up an integrated database for the support of drug design. We want to elucidate different aspects, on what are the advantages for using object-oriented data models in biomolecular data management, how object-oriented database management systems can be used and what are the limitations of the current state in the technology.

Constituting a Receptor-Ligand Database from Quality-Enriched Data

Klemens Hemm, Karl Aberer, Manfred Hendlich

Proceedings of the International Conference on Intelligent Systems in Molecular Biology 95 (ISMB 95), Cambridge, UK, 1995.

Many different resources are needed for analyzing relevant experimental data in drug design. Currently this data is difficult to access, because it is stored in heterogeneous databases, spread over many platforms, poorly interconnected, incomplete, erroneous, or just not electronically available. In order to establish a high quality database for drug design we have developed a new demand-driven methodology for integrating and semantically enriching heterogeneous data from different research areas and for migrating the data into an object-oriented database management system. In this way we have established a database containing well-prepared, relevant data needed for drug design and offering the advantages of modern database technology, like a comprehensive object-oriented data model, a flexible declarative query language and support for persistent storage and sharing of data in a multi-user environment.

Semantic optimization of biomolecular queries in object-oriented database

Karl Aberer, Klemens Hemm

Meeting on the Interconnection of Molecular Biology Databases, Cambridge, UK, 1995

Extended abstract

Contact:

Dr. Karl Aberer
GMD-IPSI
Dolivostrasse 15
D-64293 Darmstadt

E-mail: aberer@darmstadt.gmd.de
Phone: +49 6151 869 935
Fax: +49 6151 869 966



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rotein-Ligand Interactions

Brian T. Luke, Ph.D.

btluke@aol.com

This area of investigation is being performed in collaboration with Dr. Jack Collins. The intent is to generate a suite of programs that can effectively screen a large database of compounds for potential substrates of an enzyme, given one or more X-ray or NMR structures of the enzyme. By effective screening, we mean that the programs should be able to rapidly screen each database structure and accurately determine the correct orientation of the ligand in the enzyme's binding site.

The first step in this process is to determine the binding site of the enzyme. This process is greatly simplified if the experimental structure contains a bound substrate. If not, a graphical examination of the enzyme can often suggest one or more regions that may act as binding sites. If multiple putative binding sites should be explored, they need to be treated individually in the steps given below.

A given binding site is selected by choosing a **seed** point that represents a Cartesian point within the binding pocket. If the experimental structure contains a bound ligand, this seed can simply be the average coordinate of the atoms in this molecule.

Alternatively, the seed can be determined by averaging the coordinates of specific protein atoms that bracket the binding site.

Once a seed point has been determined, a grid of points is generated that "fills" the binding site. A grid-based procedure is used since it

greatly accelerates the process of orienting possible substrates within the binding pocket. Each grid point is denoted by its Cartesian coordinates and the partial electrostatic and nonbond/hydrogen-bond pseudo-energies for placing a substrate atom at that point. In addition, each grid point is denoted as either **hard** or **soft**. A hard point is sufficiently close to a protein atom to require evaluation of these pseudo-energy terms, while a soft grid point represents a region that is far enough away from any protein atom to make this evaluation unnecessary. This differentiation was included to allow for only a small region of this grid to extend into the solvent but let some of the ligand atoms extend well into the solvent, as is true for many ligands that are bound to certain enzymes.

The next step is to create a database of putative ligands. At present, the docking program treats all substrates as rigid structures. If the internal conformation of a particular substrate is not known, programs are available that let you use the Semi-Empirical Quantum Chemistry program Mopac7 to completely search the Potential Energy Surface of this molecule and build a database that contains the low-energy conformations of this substrate.

The search program then reads the grid points and searches through one or more databases for structures that fit within the cavity. The program uses a combination of an Evolutionary Search and an optimizer to find one or more good orientations of the structure within the cavity. When finished with a particular database, a selected number of optimal structures are written to disk in PDB-format.

If you have any questions or comments, or you would like any more information about the topics discussed above, please send me [email](#).

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Any enquiries re MHCPEP regarding biological issues should be sent: *MHCPEP help at WEHI*

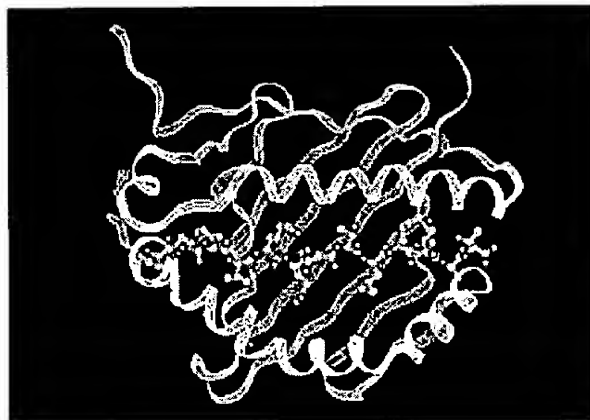
Any enquiries re MHCPEP regarding network/web difficulties should be sent: *MHCPEP support at WEHI*

[UI:93169504]

4. Nishioka, T. and Oda, J.; Analysis of amino acid sequence-function relationships in proteins. In "QSAR and Drug Design - New Developments and Applications" (Fujita, T., ed.), pp. 215-233 (1995).
5. Goto, S., Nishioka, T., and Kanehisa, M.; LIGAND: chemical database for enzyme reactions. Bioinformatics 14, 591-599 (1998). [UI:98401071]
6. Goto, S., Nishioka, T., and Kanehisa, M.; LIGAND database for enzymes, compounds, and reactions. Nucleic Acids Res. 27, 377-379 (1999). [UI:98401071]
7. Goto, S., Nishioka, T., and Kanehisa, M.; LIGAND: chemical database of enzyme reactions. Nucleic Acids Res. 28, 380-382 (2000). [UI:20063315]

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MHCPEP

A database of MHC binding peptides (v. 1.3)

MHCPEP is a database comprising over 13000 peptide sequences known to bind MHC molecules. Entries were compiled from published reports as well as from direct submissions of experimental data. Each entry contains the peptide sequence, its MHC specificity and, when available, experimental method, observed activity, binding affinity, source protein, anchor positions, and publication references.

This database is now (June 1998) static following the move of its compiler, Vladimir Brusic, to Singapore.

- **SRS browser**
SRS database searches using Thure Etzold's browser at WEHI. Links with sequence databases and MHCPEP reference sources are available on-line.
- **FTP**
FTP access for downloading MHCPEP.

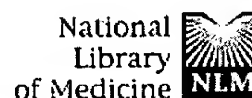
Citation reference:

V. Brusic, G. Rudy, A.P. Kyne and L.C. Harrison
MHCPEP, a database of MHC-binding peptides: update 1997
Nucleic Acids Research, (1998), Vol. 26, No. 1, pp. 368-371 [DOWNLOAD](#)

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Use of complete eluted peptide sequence data from HLA-DR and -DQ molecules to predict T cell epitopes, and the influence of the nonbinding terminal regions of ligands in epitope selection.

Godkin AJ, Davenport MP, Willis A, Jewell DP, Hill AV

Related Resources

Molecular Immunology Group, Institute of Molecular Medicine, John Radcliffe Hospital, Oxford, United Kingdom. agodkin@molbiol.ox.ac.uk

In diseases with a strong association with an HLA haplotype, identification of relevant T cell epitopes may allow alteration of the pathologic process. In this report we use a reverse immunogenetic approach to predict possible HLA class II-restricted T cell epitopes by using complete pool sequencing data. Data from HLA-DR2(B1*1501), -DR3(B1*0301), -DQ2(A1*0501, B1*0201), and -DQ8(A1*0301, B1*0302) alleles were used by a computer program that searches a candidate protein to predict ligands with a relatively high probability of being processed and presented. This approach successfully identified both known T cell epitopes and eluted single peptides from the parent protein. Furthermore, the program identified ligands from proteins in which the binding motif of the HLA molecule was unable to do so. When the information from the nonbinding N- and C-terminal regions in the pool sequence was removed, the ability to predict several ligands was markedly reduced, particularly for the HLA-DQ alleles. This suggests a possible role for these regions in determining ligands for HLA class II molecules. Thus, the use of complete eluted peptide sequence data offers a powerful approach to the prediction of HLA-DQ and -DR peptide ligands and T cell epitopes. Copyright 2000 John Wiley & Sons, Ltd.

PMID: 9670963

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Investigator: Maria Pia Protti

Area: Immunology and Infectious Diseases

Unit: Tumor Immunology, Cancer Immunotherapy and Gene Therapy Program

E-mail: m.protti@hsr.it

Specific immune response in human cancer

Tumor antigens recognized by T lymphocytes of neoplastic patients have been identified. Nonetheless spontaneous regression of human cancer is rare. The poor immunogenicity of human tumors *in vivo* is related to inefficient presentation of tumor antigens with tolerance induction in the immune system. Animal models have demonstrated that efficient immune response against transplanted tumors activate both CD8+ and CD4+ specific T lymphocytes. CD8+ T cells are the main effectors in killing MHC class I positive tumor cells. CD4+ T cells have a role in CD8+ T cell activation and effector functions indirectly by activation of macrophages and eosinophils and directly by killing MHC class II positive tumor cells. Recent evidence has demonstrated that tumor specific CD4+ T cells can become actively tolerized during progression of tumors in the absence of vaccination.

My research activities are mainly focused on: *i*) the *in vitro* evaluation of different systems to increase the immunogenicity of tumor antigens by proper presentation to the immune system and, *ii*) the study of the function of tumor specific T cells in patients during progression of the disease and during vaccination procedures.

Dendritic cells (DC) are professional antigen presenting cells that are believed to prime immune responses *in vivo*. We demonstrated that DC pulsed with tumor peptides obtained by acid treatment of whole melanoma cells stimulate CD8+ T cells able to specifically kill the tumor from which the peptides were extracted and HLA matched melanoma cells. Of particular interest, CD8+ T cells from melanoma patients, stimulated with tumor peptides obtained from HLA matched melanoma cells, killed the autologous tumors. We are currently characterizing also the CD4 response to these antigens. Preliminary results show that peptide pulsed DC stimulate an heterogeneous population of CD4+ T cells, secreting both Th1 and Th2 cytokines. These results implicate that tumor peptides obtained by acid treatment contain shared melanoma antigens and are the rationale for the development of a phase I/II vaccination protocol in melanoma patients with DC pulsed with tumor peptides extracted from allogenic HLA matched melanomas. We will evaluate the precursor frequency of tumor specific T cells during progression of the disease and before and after vaccination procedures. Moreover, since the study of CD8+ T cell antigen specificity revealed that they recognize still unidentified shared melanoma antigens, we will use this strategy to identify new tumor associated antigens in human melanomas and renal cell carcinomas (in collaboration with C. Traversari).

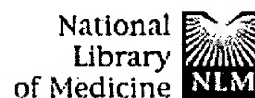
We recently demonstrated that the use of TEPITOPE, a WindowsTM application that enable the identification of MHC class II ligands binding in a promiscuous or allele-specific mode, may be a usefull tool for the screening of tumor antigen sequences naturally processed and recognized by CD4+ T cells. We identified different sequences on the MAGE-3 tumor antigen, that are recognized by CD4+ T cells from an healthy subject. Moreover, we showed that a MAGE-3 epitope was presented in association with MHC class II molecule at the surface of melanoma cells expressing HLA-DR molecules. We will use this strategy to characterize the epitope repertoire of different known tumor associated antigens, and the knowledge of sequences forming epitopes recognized by CD4+ T cells will allow the study of the function of tumor specific CD4+ T cells in neoplastic patients. To this aim, tumor specific CD4+ T cells will be purified from the blood or from metastatic sites of neoplastic patients by the use of soluble tetrameric MHC class II molecules containing the relevant epitope (produced by P. Dellabona and G. Casorati).

Moreover, the analysis of promiscuous sequences forming CD4 T cell epitopes will be used to validate the role as tumor associated antigens of new genes expressed by lung carcinoma, identified by DNA microarrays technology (in collaboration with J. Hammer and F. Sinigaglia) or new

genes expressed by mammary carcinoma, identified by the SEREX technology (in collaboration with P. Nistico').

Relevant References

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- Manici, S., Sturniolo, T., Imro, M.A., Hammer, J., Sinigaglia, F., Noppen, C., Spagnoli, G., Mazzi, B., Bellone, M., Dellabona, P., and Protti, M.P. Melanoma cells present a MAGE-3 epitope to CD4+ cytotoxic T cells in association with histocompatibility leukocyte antigen DR11. *J. Exp. Med.*, 189:871-876, 1999
- Imro, M.A., Manici, S., Russo, V., Consogno, G., Bellone, M., Rugarli, C., Traversari, C., and Protti, M.P. Major histocompatibility complex class I restricted cytotoxic T cells specific for natural melanoma peptides recognize unidentified shared melanoma antigen(s). *Cancer Res.*, 59:2287-2291, 1999
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		Limits	Preview/Index	History	Clipboard			
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PubMed Services

LIGAND: chemical database for enzyme reactions.**Goto S, Nishioka T, Kanehisa M**

Institute for Chemical Research, Kyoto University, Uji, Kyoto 611-0011, Japan. goto@kuicr.kyoto-u.ac.jp

Related Resources

MOTIVATION: The existing molecular biology databases focus on the sequence and structural aspects of biological macromolecules, i.e. DNAs, RNAs and proteins. However, in order to understand the functional aspects, it is essential to computerize the interaction of these molecules. Furthermore, living cells contain additional molecules, such as metabolic compounds and metal ions, that may also be considered as parts of the basic building blocks of life, but are not well organized in public databases. LIGAND chemical database is our attempt to solve these problems. at least for enzymatic reactions. **RESULTS:** LIGAND consists of two sections: ENZYME and COMPOUND. The ENZYME section is an extension of previous studies (Suyama et al. , Comput. Applic. Biosci., 9, 9-15, 1993), and it is a flat-file representation of 3303 enzymes and 2976 enzymatic reactions in the chemical equation format that can be parsed by machine. The COMPOUND section has been newly constructed for information on the nomenclature and chemical structures of compounds. It contains 5383 chemical compounds. Both ENZYME and COMPOUND entries contain rich cross-reference information, most of which is automatically generated by the DBGET/LinkDB system, thus providing the linkage between chemical and biological databases. LIGAND is updated daily, tightly coupled with the KEGG metabolic pathway database, and forms the basis for reconstruction and computation of pathways. **AVAILABILITY:** LIGAND can be accessed through the DBGET/LinkDB and KEGG systems in the Japanese GenomeNet database service via <http://www.genome.ad.jp/>. The flat-file format of the LIGAND database can be downloaded by anonymous FTP via <ftp://kegg.genome.ad.jp/molecules/ligand/>. **CONTACT:** goto@kuicr.kyoto-u.ac.jp; nishioka@scl.kyoto-u.ac.jp; kanehisa@kuicr.kyoto-u.ac.jp

MeSH Terms:

- Computational Biology*
- Databases, Factual*
- Enzymes*
- Support, Non-U.S. Gov't

Substances:

- Enzymes

PMID: 9730924

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Database Preparation

dock 3.5 ligand database format

In DOCK 3.5 the ligand database format has changed. The new ligand database format (a) handles a variable number of chemical labels, (b) incorporates fields for conformational entropy and solvation correction, although they are not currently used by DOCK, (c) includes all the fields of the version 3.0 database, and (d) has been reorganized so that all the information pertaining to a particular atom is grouped together. This new format takes a little more space than the 3.0 format (which omitted fields that were 0), but it is easier to understand.

After the header line (DOCK 3.5 ligand_atoms) comes the color (label) table - a list of color names, one per line (format A30). Next come the ligands, in the format below. The label (color) for each ligand atom is simply an index into the color table (*i.e.* 1 for the first color listed, 2 for the second color listed, *etc.*).

repeated for each molecule {	molecule name A51				reference code A9	
	# atoms I3	# heavy I3	# hydrogen I3	solvation correction F12.4	conformational entropy I6	
repeated for each atom	atomic coordinates 3I5		van der Waals type I2	charge I5	atom flag I1	label (color) I3

For an example molecule, see [here](#).

Curator: Daniel Gschwend <gschwend@cgl.ucsf.edu> (rev. 17 January 1996)



LIGAND

Database for enzymes, compounds, and reactions

Getting Started

- [LIGAND User Manual](#)
- [EC number table](#)
- [Statistics of ENZYME and COMPOUND entries](#) (daily updated)
- [Enzyme nomenclature by JCBN/NC-IUBMB](#)

DBGET/LinkDB Search

- [Search enzymes and compounds](#)

KEGG Search

- [Enzyme classification by EC numbers](#)
- [Enzyme classification by PIR superfamilies](#)
- [Enzyme classification by SCOP 3D-folds](#)
- [Enzyme classification by PROSITE motifs](#)
- [Compound classification](#)
- [Periodic table](#)

Path Computation

- [Generate possible reaction pathways](#)

Anonymous FTP

- [Download LIGAND database](#) (weekly updated)

References

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3. Suyama, M., Ogiwara, A., Nishioka, T., and Oda, J.; Searching for amino acid sequence motifs among enzymes: the Enzyme-Reaction Database. Comp. Appl. Biosci. 9, 9-15 (1993).

Nucleic Acids Res. 1998 26: 80-84. [\[Abstract\]](#) [\[Full Text\]](#)



FlyBase: a Drosophila database. Flybase Consortium

Nucleic Acids Res. 1998 26: 85-88. [\[Abstract\]](#) [\[Full Text\]](#)



E Mohr, F Horn, F Janody, C Sanchez, V Pillet, B Bellon, L Roder, and B Jacq

FlyNets and GIF-DB, two internet databases for molecular interactions in Drosophila melanogaster

Nucleic Acids Res. 1998 26: 89-93. [\[Abstract\]](#) [\[Full Text\]](#)



SI Letovsky, RW Cottingham, CJ Porter, and PWD Li

GDB: the Human Genome Database

Nucleic Acids Res. 1998 26: 94-99. [\[Abstract\]](#) [\[Full Text\]](#)



F Achard and E Barillot

Virgil: a database of rich links between GDB and GenBank

Nucleic Acids Res. 1998 26: 100-101. [\[Abstract\]](#) [\[Full Text\]](#)



P Lijnzaad, C Helgesen, and P Rodriguez-Tome

The Radiation Hybrid Database

Nucleic Acids Res. 1998 26: 102-105. [\[Abstract\]](#) [\[Full Text\]](#)



E Barillot, F Guyon, C Cussat-Blanc, E Viara, and G Vaysseix

HuGeMap: a distributed and integrated Human Genome Map database

Nucleic Acids Res. 1998 26: 106-107. [\[Abstract\]](#) [\[Full Text\]](#)



U Leser, R Wagner, A Grigoriev, H Lehrach, and H Roest Crolius

IXDB, an X chromosome integrated database

Nucleic Acids Res. 1998 26: 108-111. [\[Abstract\]](#) [\[Full Text\]](#)



AM Kogelnik, MT Lott, MD Brown, SB Navathe, and DC Wallace

MITOMAP: a human mitochondrial genome database--1998 update

Nucleic Acids Res. 1998 26: 112-115. [\[Abstract\]](#) [\[Full Text\]](#)



M Attimonelli, D Calo, JM Cooper, A de Montalvo, F Licciulli, D Sasanelli, K Stevens, BS Malladi, C Saccone, and AH Shapira

The mitBASE human dataset structure

Nucleic Acids Res. 1998 26: 116-119. [\[Abstract\]](#) [\[Full Text\]](#)



M Attimonelli, D Calo, A De Montalvo, C Lanave, D Sasanelli, M Tommaseo Ponzetta, and C Saccone

Update of MmtDB: a Metazoa mitochondrial DNA variants database

Nucleic Acids Res. 1998 26: 120-125. [\[Abstract\]](#) [\[Full Text\]](#)



O Handt, S Meyer, and A von Haeseler

Compilation of human mtDNA control region sequences

Nucleic Acids Res. 1998 26: 126-129. [\[Abstract\]](#) [\[Full Text\]](#)

ligands.

ST **MHC class II binding epitope; CD4 T lymphocyte activation**
antigen epitope; autoimmune disease infection cancer **MHC epitope**

IT **Histocompatibility antigens**
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(HLA-DQ; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Histocompatibility antigens**
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(HLA-DR4; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Histocompatibility antigens**
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(HLA-DR; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Proteins, specific or class**
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(IA-2, tyrosine phosphatase-like protein; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Histocompatibility antigens**
RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(**MHC (major histocompatibility complex)**, class II; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Proteins, specific or class**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(SU (surface), receptor; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **DNA**
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(altered peptide ligand-encoding; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Ligands**
RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(altered peptide; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Kidney, disease**
(antiglomerular basement membrane disease; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **T cell (lymphocyte)**
(auto-reactivity redn.; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Antigens**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(autoantigens; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Thyroid gland, disease**
(autoimmune thyroiditis; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Hepatitis
(autoimmune; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Infection
(bacterial; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Receptors**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(cell surface; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Ovary, disease
(failure, autoimmune premature; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Parasite
(infection; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Diabetes mellitus
(insulin-dependent; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Pokeweed
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(mitogen; peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Addison's disease
Antigen-presenting cell
Autoimmune disease
B cell (lymphocyte)
CD4-positive T cell
Celiac disease
Dendritic cell
Graves' disease
Infection
Leprosy
Macrophage
Mammal (Mammalia)
Mitogens
Monocyte
Multiple sclerosis
Myasthenia gravis
Neoplasm
Pathogen
Pokeweed
Rheumatoid arthritis
Susceptibility (genetic)
Vitiligo
(peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT **Peptides, biological studies**
Proteins, general, biological studies
RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Avidins
RL: ARU (Analytical role, unclassified); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
(peptide epitopes recognized by disease promoting CD4+ T lymphocytes for developing therapeutics and prophylactics)

IT Agglutinins and Lectins
Antibodies
Immunoglobulins
RL: BPR (Biological process); BSU (Biological study, unclassified); THU

(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(peptide epitopes recognized by disease promoting CD4+ T lymphocytes
for developing therapeutics and prophylactics)

IT **Proteins, specific or class**
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(phogrin; peptide epitopes recognized by disease promoting CD4+ T
lymphocytes for developing therapeutics and prophylactics)

IT Mitogens
RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(pokeweed; peptide epitopes recognized by disease promoting CD4+ T
lymphocytes for developing therapeutics and prophylactics)

IT Biliary tract
(primary biliary cirrhosis; peptide epitopes recognized by disease
promoting CD4+ T lymphocytes for developing therapeutics and
prophylactics)

IT Hypothyroidism
(primary; peptide epitopes recognized by disease promoting CD4+ T
lymphocytes for developing therapeutics and prophylactics)

IT Connective tissue
(scleroderma; peptide epitopes recognized by disease promoting CD4+ T
lymphocytes for developing therapeutics and prophylactics)

IT Lupus erythematosus
(systemic; peptide epitopes recognized by disease promoting CD4+ T
lymphocytes for developing therapeutics and prophylactics)

IT Infection
(viral; peptide epitopes recognized by disease promoting CD4+ T
lymphocytes for developing therapeutics and prophylactics)

IT 79747-53-8, Tyrosine phosphatase
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(IA-2; peptide epitopes recognized by disease promoting CD4+ T
lymphocytes for developing therapeutics and prophylactics)

IT 113516-56-6 115084-19-0 155740-47-9 252902-54-8 252902-56-0
252902-57-1 252902-58-2 252902-59-3 261944-63-2 303728-27-0
303728-28-1 303728-29-2 303728-30-5 303728-31-6 303728-32-7
303728-33-8 303728-34-9 303728-35-0 303728-36-1 303729-96-6
303729-97-7 303729-98-8 303729-99-9 303730-00-9 303730-01-0
303730-02-1 303730-03-2 303730-04-3 303730-05-4 303730-06-5
303730-07-6 303730-08-7 303730-09-8 303730-10-1 303730-11-2
303730-12-3 303730-13-4 303730-14-5 303730-16-7 303730-17-8
303730-18-9 303730-19-0 303730-20-3 303730-21-4 303730-22-5
303730-23-6 303730-24-7 303730-30-5 303730-31-6 303730-32-7
303730-33-8 303730-34-9
RL: ANT (Analyte); BPR (Biological process); BSU (Biological study,
unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); PROC (Process); USES (Uses)
(peptide epitopes recognized by disease promoting CD4+ T lymphocytes
for developing therapeutics and prophylactics)

IT 58-85-5, Biotin 9004-10-8, Insulin, biological studies 9024-58-2,
Glutamic acid decarboxylase 9035-68-1, Proinsulin 61116-24-3,
Preproinsulin
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(peptide epitopes recognized by disease promoting CD4+ T lymphocytes
for developing therapeutics and prophylactics)

RE.CNT 8

RE

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- (2) Honeyman, M; ANN MED 1997, V29(5), P401 HCAPLUS
- (3) Honeyman, M; MOL MED 1998, V4(4), P231 HCAPLUS
- (4) Lohmann, T; EXP CLIN ENDOCRINOL DIABETES 1999, V107(3), P166 HCAPLUS
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- (6) Peakman, J; CLIN INVEST 1999, V104(10), P1449 HCAPLUS
- (7) Stevens, E; JOURNAL OF IMMUNOLOGICAL METHODS 1998, V215, P59 HCAPLUS

(8) Vignali, D; US 5827516 A 1998 HCAPLUS

L53 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:133797 HCAPLUS

DN 132:177736

TI Profiling and cataloging expressed protein tags

IN **Chicz, Roman M.; Hedley, Mary Lynne; Hsu, Charles; Urban, Robert G.**

PA Zycos Inc., USA

SO PCT Int. Appl., 126 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C12N

CC 9-16 (Biochemical Methods)

Section cross-reference(s): 1, 15

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000009654	A2	20000224	WO 1999-US17680	19990804
	WO 2000009654	A3	20000615		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9953367	A1	20000306	AU 1999-53367	19990804
PRAI	US 1998-133094		19980812		
	US 1998-96291		19980812		
	US 1999-135728		19990525		
	WO 1999-US17680		19990804		
AB	An expressed protein tag (EPT) profile characteristic for a given cell, the profile including a representation of at least ten different polypeptides expressed by the cell and bound by a given type of multi-ligand binding receptor; and computer-assisted manipulation of such a profile.				
ST	profiling cataloging protein tag				
IT	Proteins, specific or class				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (E2 ubiquitin carrier; profiling and cataloging expressed protein tags)				
IT	Proteins, specific or class				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (GRP78 (glucose-regulated protein, 78,000-mol-wt.); profiling and cataloging expressed protein tags)				
IT	Heat-shock proteins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (HSP 60; profiling and cataloging expressed protein tags)				
IT	Heat-shock proteins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (HSP 65; profiling and cataloging expressed protein tags)				
IT	Heat-shock proteins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (HSP 70; profiling and cataloging expressed protein tags)				
IT	Heat-shock proteins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (HSP 90; profiling and cataloging expressed protein tags)				
IT	Histocompatibility antigens				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (MHC (major histocompatibility antigen complex), class I, receptors; profiling and cataloging expressed protein tags)				

IT **Receptors**
RL: ANT (Analyte); ANST (Analytical study)
(MHC class II; profiling and cataloging expressed protein tags)

IT **Proteins, specific or class**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Retention; profiling and cataloging expressed protein tags)

IT **Proteins, specific or class**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Trafficking; profiling and cataloging expressed protein tags)

IT Information systems
(data; profiling and cataloging expressed protein tags)

IT Glycophosphoproteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(endoplasmic; profiling and cataloging expressed protein tags)

IT **Proteins, specific or class**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(grp96; profiling and cataloging expressed protein tags)

IT Phosphoproteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(hsp 25; profiling and cataloging expressed protein tags)

IT Animal tissue culture
Cell
Computer application
Databases
Drugs
Genetics
(profiling and cataloging expressed protein tags)

IT **Peptides, biological studies**
Proteins, general, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(profiling and cataloging expressed protein tags)

IT **Calnexin**
Calreticulin
Chaperonins
Ligands
Receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(profiling and cataloging expressed protein tags)

IT **37211-66-8, Mannosidase 74812-49-0, e3**
Ubiquitin ligase 83534-39-8, N-
Glycanase 140879-24-9, Proteasome
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(profiling and cataloging expressed protein tags)

L53 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2001 ACS
AN 1998:12644 HCAPLUS
DN 128:87468
TI The discovery and use of HLA-associated epitopes as drugs
AU **Urban, Robert G.; Chicz, Roman M.; Hedley, Mary Lynne**
CS Pangaea Pharmaceuticals, Inc., Cambridge, MA, 02138, USA
SO Crit. Rev. Immunol. (1997), 17(5 & 6), 387-397
CODEN: CCRIDE; ISSN: 1040-8401
PB Begell House, Inc.
DT Journal; General Review
LA English
CC 15-0 (Immunochemistry)
AB A review with 65 refs. **MHC** receptors "display" peptide fragments to T cells. These peptides are predominantly derived from proteins expressed within or ingested by the presenting cell. Since empty **MHC** mols. are highly unstable, peptide **ligands** are bound prior to **MHC** surface expression and the ensuing t1/2 off rates

are often on the order of days. It is the remarkable stability of **MHC**/peptide complexes, which provide the authors an opportunity to purify **MHC** mols. from infected, transfected, or antigen pulsed cells and subsequently identify the naturally processed peptides being presented. The stability of **MHC**/peptide complexes substantially reduces the potency of parenterally administered peptides in vivo. Using serial immuno-affinity chromatog. and mass spectrometry, naturally processed peptides can be identified. When these peptides are then encoded into nucleic acid and delivered parenterally, they are highly immunogenic. Application of these techniques to induce vigorous CTL responses will be discussed.

ST review HLA peptide epitope genetic immunization

IT Cytotoxic T cell

Epitopes

Immunotherapy

(characterization of HLA-assocd. peptides and their use in genetic immunization)

IT **Peptides**, biological studies

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(characterization of HLA-assocd. peptides and their use in genetic immunization)

IT HLA antigens

RL: BPR (Biological process); BIOL (Biological study); PROC (Process)

(characterization of HLA-assocd. peptides and their use in genetic immunization)

IT Immunization

(genetic; characterization of HLA-assocd. peptides and their use in)

L53 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2001 ACS

AN 1997:736649 HCAPLUS

DN 128:33490

TI HLA-DP2: Self peptide sequences and binding properties

AU **Chicz, Roman M.**; Graziano, Daniel F.; Trucco, Massimo; Strominger, Jack L.; Gorga, Joan C.

CS Dep. of Molecular and Cellular Biology, Harvard University, Cambridge, MA, 02138, USA

SO J. Immunol. (1997), 159(10), 4935-4942

CODEN: JOIMA3; ISSN: 0022-1767

PB American Association of Immunologists

DT Journal

LA English

CC 15-2 (Immunochemistry)

AB Although self peptides bound to HLA-DQ and, esp., HLA-DR allotypes have been described in some detail, few **ligands** that bind to HLA-DP have been identified. Toward this aim, naturally processed peptides were isolated from immunoaffinity-purified HLA-DP2 mols. expressed in cultured B lymphocytes. The size distribution of the peptide repertoire is generally similar to those reported for self peptides bound to HLA-DR and HLA-DQ mols. Twelve peptides representing individual sequences including two nested sets were sequenced by mass spectrometry and/or N-terminal Edman anal. Source proteins included **MHC** mols. and other integral membrane proteins as well as secretory and serum proteins. No dominant amino acid markers suggestive of particular enzymic processing events were detected. Peptide specificity and affinity were examd. in binding assays using synthetic peptides and purified HLA-DP and HLA-DR mols. Anchor residues were tentatively assigned using alanine-substituted analogs of two self peptides. Some structural features of HLA-DP2 that may related to peptide binding are considered.

ST HLA DP2 self peptide binding

IT Structure-activity relationship

(HLA-DP2-binding; self peptide sequences and binding properties to HLA-DP2)

IT B cell (lymphocyte)

(self peptide sequences and binding properties to HLA-DP2)

IT Autoantigens
HLA-DP antigen
RL: BPR (Biological process); PRP (Properties); BIOL (Biological study);
PROC (Process)
(self peptide sequences and binding properties to HLA-DP2)

IT 160665-35-0 199682-87-6 199682-88-7 199682-89-8 199682-90-1
199682-91-2 199682-92-3 199682-93-4 199682-94-5 199682-95-6
199682-96-7 199682-97-8 199682-98-9 199682-99-0 199683-01-7
199683-04-0 199683-05-1 199683-06-2 199683-07-3 199683-08-4
199683-09-5 199683-10-8 199683-11-9 199683-12-0 199683-13-1
199683-14-2 199683-15-3 199683-16-4 199683-17-5 199683-18-6
199683-19-7 199683-20-0 199683-21-1
RL: BPR (Biological process); PRP (Properties); BIOL (Biological study);
PROC (Process)
(self peptide sequences and binding properties to HLA-DP2)

L53 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2001 ACS
AN 1997:431951 HCAPLUS
DN 127:175083
TI Matrix-based prediction of **MHC-binding peptides**: the EpiMatrix
algorithm, reagent for HIV research
AU Jesdale, Bill M.; Deocampo, Greg; Meisell, John; Beall, Jeff; Marinello,
Mark J.; **Chicz, Roman M.**; De Groot, Anne S.
CS TB/HIV Research Laboratory, International Health Institute, Brown
University School of Medicine, Providence, RI, 02912, USA
SO Vaccines 97: Mol. Approaches Control Infect. Dis., [Annu. Meet.], 14th
(1997), Meeting Date 1996, 57-64. Editor(s): Brown, Fred. Publisher: Cold
Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y.
CODEN: 64QNAJ
DT Conference
LA English
CC 15-2 (Immunochemistry)
AB Consistent and accurate detn. of peptides that bind to **MHC** mols.
is the first step in the identification of T-cell epitopes. This is
particularly relevant for HIV research. Due to limitations of
anchor-based **MHC-binding** motifs, the TB/HIV Research Lab. has
developed a method of compiling information on peptides demonstrated to
bind to **MHC** mols. into an **MHC-binding** matrix
(EpiMatrix). The first trial of the EpiMatrix algorithm was to compare
MHC ligand predictions for 67 proteins to known
ligands.
ST EpiMatrix algorithm HIV HLA peptide
IT Human immunodeficiency virus
(matrix-based prediction of **MHC-binding peptides** using the
EpiMatrix algorithm, reagent for HIV research)
IT HLA antigens
Peptides, biological studies
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(matrix-based prediction of **MHC-binding peptides** using the
EpiMatrix algorithm, reagent for HIV research)

L53 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2001 ACS
AN 1997:337927 HCAPLUS
DN 127:16330
TI An interactive web site providing major histocompatibility **ligand**
predictions: application to HIV research
AU De Groot, Anne S.; Jesdale, Bill M.; Szu, Evan; Schafer, James R.;
Chicz, Roman M.; Deocampo, Greg
CS TB/HIV Research Laboratory, Brown University School of Medicine,
Providence, RI, 02912, USA
SO AIDS Res. Hum. Retroviruses (1997), 13(7), 529-531
CODEN: ARHRE7; ISSN: 0889-2229
PB Liebert
DT Journal
LA English
CC 15-2 (Immunochemistry)

AB EpiMatrix/HIV, a tool that is currently available on the World Wide Web, enables researchers to screen HIV proteins for potential **MHC ligands**. We have performed a comparison of EpiMatrix predictions to 158 published allotype-specific HLA-assocd. peptides (**MHC ligands**) derived from 133 proteins. The top 10 ranked EpiMatrix predictions for each of the 158 HLA allotype-protein pairs were selected for comparison with these published **ligands**. EpiMatrix correctly identified 134 of 158 published **ligands** (85%). The algorithm is now available for use by the HIV research community at the URL <http://www.EpiMatrix.com/HIV>.

ST HIV peptide HLA antigen EpiMatrix

IT Human immunodeficiency virus
(interactive web site providing major histocompatibility **ligand** predictions and its application to HIV research)

IT HLA antigens
Peptides, biological studies
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(interactive web site providing major histocompatibility **ligand** predictions and its application to HIV research)

L53 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2001 ACS

AN 1997:46816 HCAPLUS

DN 126:116631

TI Genetic modulation of antigen presentation

AU **Hedley, Mary Lynne**

CS Department Molecular & Cellular Biology, Harvard University, Cambridge, MA, USA

SO MHC Mol.: Expression, Assem. Funct. (1996), 281-294. Editor(s): **Urban, Robert G.; Chicz, Roman M.** Publisher: Landes, Austin, Tex. CODEN: 63WLA2

DT Conference; General Review

LA English

CC 15-0 (Immunochemistry)

AB A review with 92 refs. exploring how the flourishing field of gene therapy and recent advances in the understanding of **MHC** mol./peptide **ligand** interactions can be coalesced into a technol. that has the potential to become the method of choice for treating such diverse conditions as cancer, infection, and autoimmunity.

ST gene therapy antigen presentation review

IT Gene therapy
(genetic modulation of antigen presentation)

IT Antigens
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(genetic modulation of antigen presentation)

L53 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2001 ACS

AN 1997:46812 HCAPLUS

DN 126:102624

TI Cooperative recognition of **MHC** class II:peptide complexes by the T cell receptor and CD4

AU Vignali, Dario A. A.

CS Department Immunology, St. Jude's Children's Research Hospital, Memphis, TN, USA

SO MHC Mol.: Expression, Assem. Funct. (1996), 207-228. Editor(s): **Urban, Robert G.; Chicz, Roman M.** Publisher: Landes, Austin, Tex. CODEN: 63WLA2

DT Conference; General Review

LA English

CC 15-0 (Immunochemistry)

AB A review, with 158 refs., discussing TCR recognition of **MHC** class II:peptide complexes, TCR recognition of **MHC** class II-bound peptide flanking residues, initiation of TCR signaling, modulating T cell responses with altered peptide **ligands**, CD4 binding to **MHC** class II mols., and CD4 interaction with the TCR:CD3 complex.

ST review **MHC** peptide TCR receptor CD4

- IT CD4 (antigen)
Class II **MHC** antigens
Peptides, biological studies
TCR (T-cell **receptors**)
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(cooperative recognition of **MHC** class II:peptide complexes by
T cell receptor and CD4)
- L53 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2001 ACS
AN 1997:46811 HCAPLUS
DN 126:102623
TI Role of **ligand** density in T cell reactions
AU Tsomides, Theodore J.
CS Center Cancer Research, Massachusetts Institute Technology, Cambridge, MA,
USA
SO **MHC** Mol.: Expression, Assem. Funct. (1996), 191-206. Editor(s):
Urban, Robert G.; Chicz, Roman M. Publisher: Landes, Austin, Tex.
CODEN: 63WLA2
DT Conference; General Review
LA English
CC 15-0 (Immunochemistry)
AB A review, with 87 refs., discussing the study of peptides recognized by
CD8+ cytotoxic T lymphocytes, the efficacy of CTL-mediated target cell
lysis, and the role of **ligand** d.
ST review cytotoxic T lymphocyte **ligand** density
IT Cytotoxic T cell
(role of **ligand** d. in T cell reactions)
IT **Peptides**, biological studies
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(role of **ligand** d. in T cell reactions)
- L53 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2001 ACS
AN 1995:677012 HCAPLUS
DN 123:81197
TI Naturally processed peptides from two disease-resistance-associated
HLA-DR13 alleles show related sequence motifs and the effects of the
dimorphism at position 86 of the HLA-DR.beta. chain
AU Davenport, Miles P.; Quinn, Cheryl L.; **Chicz, Roman M.**; Green,
Brian N.; Willis, Anthony C.; Lane, William S.; Bell, John I.; Hill,
Adrian V. S.
CS Mol. Immunol. Group, Univ. Oxford, Oxford, OX3 9DU, UK
SO Proc. Natl. Acad. Sci. U. S. A. (1995), 92(14), 6567-71
CODEN: PNASA6; ISSN: 0027-8424
DT Journal
LA English
CC 15-2 (Immunochemistry)
AB HLA-DR13 has been assocd. with resistance to two major infectious diseases
of humans. To investigate the peptide binding specificity of two HLA-DR13
mols. and the effects of the Gly/Val dimorphism at position 86 of the
HLA-DR.beta. chain on natural peptide **ligands**, these peptides
were acid-eluted from immunoaffinity-purified HLA-DRB1*1301 and
-DRB1*1302, mols. that differ only at this position. The eluted peptides
were subjected to pool sequencing or individual peptide sequencing by
tandem MS or Edman microsequencing. Sequences were obtained for 23
peptides from nine source proteins. Three pool sequences for each allele
and the sequences of individual peptides were used to define binding
motifs for each allele. Binding specificities varied only at the primary
hydrophobic anchor residue, the differences being a preference for the
arom. amino acids Tyr and Phe in DRB1*1302 and a preference for Val in
DRB1*1301. Synthetic analogs of the eluted peptides showed allele
specificity in their binding to purified HLA-DR, and Ala-substituted
peptides were used to identify the primary anchor residues for binding.
The failure of some peptides eluted from DRB1*1302 (those that use arom.
amino acids as primary anchors) to bind to DRB1*1301 confirmed the
different preferences for peptide anchor residues conferred by the Gly
.fwdarw. Val change at position 86. These data suggest a mol. basis for

the differential assocns. of HLA-DRB1*1301 and DRB1*1302 with resistance to severe malaria and clearance of hepatitis B virus infection.

ST HLA DR13 peptide sequence motif; polymorphism HLA DR13 peptide binding

IT Histocompatibility antigens
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
 (HLA-DR13, human; sequence motif for peptide binding to)

IT Molecular structure-biological activity relationship
 (histocompatibility antigen HLA-DR13-binding; of peptides)

IT Molecular association
 (of naturally processed peptides to human HLA-DR13 histocompatibility antigen)

IT **Protein** sequences
 (of peptides binding human HLA-DR13 histocompatibility antigen)

IT **Peptides**, biological studies
 RL: BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (sequence motif for binding to human HLA-DR13 histocompatibility antigen)

IT Malaria
 (sequence motif for peptide binding to human HLA-DR13 histocompatibility antigen in relation to resistance to)

IT Hepatitis
 (B, sequence motif for peptide binding to human HLA-DR13 histocompatibility antigen in relation to resistance to)

L53 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2001 ACS

AN 1994:296063 HCAPLUS

DN 120:296063

TI Analysis of **MHC**-presented peptides: applications in autoimmunity and vaccine development

AU **Chicz, Roman M.; Urban, Robert G.**

CS Biol. Lab., Harvard Univ., Cambridge, MA, 02138, USA

SO Immunol. Today (1994), 15(4), 155-60

CODEN: IMTOD8; ISSN: 0167-4919

DT Journal; General Review

LA English

CC 15-0 (Immunochemistry)

AB A review, with 45 refs., describing the features of peptides bound to **MHC** mols. and the mechanism by which these surfaces proteins bind diverse peptide **ligands** with high affinity. In addn., the application of new technologies to the identification of **MHC**-assocd. peptides is discussed.

ST **MHC** complex peptide analysis review; autoimmunity
histocompatibility complex peptide review; vaccine
histocompatibility complex peptide review

IT **Peptides**, biological studies

RL: BIOL (Biological study)

(antigenic, **MHC** complex-bound, anal. of, autoimmunity and vaccine development in relation to)

IT Histocompatibility antigens

RL: BIOL (Biological study)

(peptides bound to, anal. of, autoimmunity and vaccine development in relation to)

IT Antigens

RL: BIOL (Biological study)

(peptides of, **MHC** complex-bound, anal. of, autoimmunity and vaccine development in relation to)

IT Autoimmune disease

Vaccines

(peptides presented by **histocompatibility complexes** in relation to)

L53 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2001 ACS

AN 1989:453527 HCAPLUS

DN 111:53527

TI Immobilized-metal affinity and hydroxyapatite chromatography of

genetically engineered subtilisin

AU **Chicz, Roman M.**; Regnier, Fred E.
 CS Dep. Biochem., Purdue Univ., West Lafayette, IN, 47907, USA
 SO Anal. Chem. (1989), 61(15), 1742-9
 CODEN: ANCHAM; ISSN: 0003-2700

DT Journal
 LA English
 CC 9-3 (Biochemical Methods)
 Section cross-reference(s): 6, 7, 66

AB High-performance immobilized-metal affinity and hydroxyapatite chromatog. were employed to investigate the engineered subtilisin S1 binding site microenvironment. Although these methods are classified as affinity techniques, unlike traditional affinity columns, both are capable of probing the entire surface of a mol. The metal chelate study employed gradient elution to assemble retention maps for a wide range of mobile-phase pH. Resoln. of single substitution variants was achieved at the optimum mobile-phase pH. A total of 4 metals were applied sep. to the metal chelate column to investigate **ligand** specificity with respect to **protein retention**. Hydroxyapatite chromatog., albeit an established technique, has only recently been developed as a HPLC method. Gradient elution sepns. were performed to det. selectivity. Immobilized-metal affinity chromatog. was a more effective method for the sepn. of site-specific variants.

ST hydroxyapatite HPLC subtilisin variant; immobilized metal affinity chromatog protein; subtilisin variant sepn HPLC; recombinant DNA protein prodn sepn; liq chromatog protein variant

IT Genetic engineering
 (protein prodn. by, protein variants sepn. by immobilized metal affinity and hydroxyapatite chromatog. in relation to)

IT **Proteins, specific or class**
 RL: PROC (Process)
 (analogs, sepn. of, variance of, by immobilized metal affinity and hydroxyapatite chromatog.)

IT Chromatography, column and liquid
 (high-performance, of protein variants from genetic engineering, on hydroxyapatite)

IT Chromatography, column and liquid
 (high-performance, affinity, immobilized metal in, of protein variants from genetic engineering)

IT 9014-01-1, Subtilisin
 RL: PROC (Process)
 (sepn. of, variance of genetically engineered, by immobilized metal affinity and hydroxyapatite chromatog.)

IT 1306-06-5, Hydroxylapatite (Ca₅(OH)(PO₄)₃) 101707-35-1, TSK-Gel Chelate 5PW
 RL: ANST (Analytical study)
 (stationary phase, in protein variant sepn. by HPLC)

IT 7440-50-8, Copper, analysis
 RL: ANST (Analytical study)
 (subtilisin interaction with, in immobilized metal chromatog.)

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L102 ANSWER 1 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 1998:107458 BIOSIS
 DN PREV199800107458
 TI Analysis of **peptides** eluted from diabetes-susceptibility class
 II **MHC** molecules, purified from antigen presenting cells pulsed
 with IA-2ic.
 AU Peakman, M. (1); Stevens, E. J.; Trucco, M.; Chicz, R. M.;
 Gorga, J. C.
 CS (1) Dep. Immunol., King's Coll. Sch. Med. Dentistry, London SE5 9PJ UK
 SO Immunology, (Dec., 1997) Vol. 92, No. SUPPL. 1, pp. 114.
 Meeting Info.: **5th Annual Congress of the British Society for
 Immunology** Brighton, England, UK December 2-5, 1997 British Society
 for Immunology
 . ISSN: 0019-2805.
 DT **Conference**
 LA English
 CC Immunology and Immunochemistry - Immunopathology, Tissue Immunology
 *34508
Biochemical Studies - Proteins, Peptides and Amino Acids *10064
Metabolism - Metabolic Disorders *13020
Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
Reticuloendothelial System *15008
Endocrine System - Pancreas *17008
General Biology - Symposia, Transactions and Proceedings of
Conferences, Congresses, Review Annuals *00520
 IT Major Concepts
 Blood and Lymphatics (Transport and Circulation); Endocrine System
 (Cheical Coordination and Homeostasis); Immune System (Chemical
 Coordination and Homeostasis)
 IT Parts, Structures, & Systems of Organisms
 antigen-presenting cells: immune system; T cell: blood and lymphatics,
 immune system
 IT Chemicals & Biochemicals
 major **histocompatibility** complex class II: molecules;
 peptides; HLA-DR4; IA-2ic autoantigen: native diabetes-related
 autoantigen
 IT Miscellaneous Descriptors
 diabetes susceptibility; **Meeting Abstract**;
 Meeting Poster

L102 ANSWER 2 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 1997:465333 BIOSIS
 DN PREV199799764536
 TI Matrix-based prediction of **MHC-binding peptides**: The
 EpiMatrix algorithm, reagent for HIV research.
 AU Jesdale, Bill M. (1); Deocampo, Greg; Meisell, John; Beall, Jeff;
 Marinello, Mark J.; **Chicz, Roman M.**; De Groot, Anne S. (1)
 CS (1) TB/HIV Res. Lab., International Health Inst., Brown Univ. Sch. Med.,
 Providence, RI 02912 USA
 SO Brown, F. [Editor]; Burton, D. [Editor]; Doherty, P. [Editor]; Mekalanos,
 J. [Editor]. Vaccines (Cold Spring Harbor), (1997) Vol. 97, pp. 57-64.
 Vaccines (Cold Spring Harbor); Molecular approaches to the control of
 infectious diseases.
 Publisher: Cold Spring Harbor Laboratory Press 10 Skyline Drive,
 Plainview, New York 11803, USA.
 Meeting Info.: **Fourteenth Annual Meeting on Modern Approaches to the
 Control of Infectious Diseases** Cold Spring Harbor, New York, USA
 September 9-13, 1996
 ISSN: 0899-4056. ISBN: 0-87969-516-1.
 DT **Book; Conference**
 LA English
 CC Cytology and Cytochemistry - Animal *02506

Biochemical Studies - Proteins, Peptides and Amino Acids *10064
 Biochemical Studies - Carbohydrates *10068
 Biophysics - Molecular Properties and Macromolecules *10506
 Biophysics - Membrane Phenomena *10508
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and Reticuloendothelial System *15008
 Virology - Animal Host Viruses *33506
 Medical and Clinical Microbiology - Virology *36006

BC 00500
 Animalia - Unspecified *33000

IT Major Concepts
 Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport and Circulation); Cell Biology; Infection; Membranes (Cell Biology); Microbiology

IT Sequence Data
 amino acid sequence

IT Miscellaneous Descriptors
 BIOCHEMISTRY AND BIOPHYSICS; BLOOD AND LYMPHATICS; EPIMATRIX ALGORITHM; HIV INFECTION; HOST; HUMAN IMMUNODEFICIENCY VIRUS INFECTION; IMMUNE SYSTEM; INFECTION; MAJOR **HISTOCOMPATIBILITY** COMPLEX MOLECULES; MAJOR **HISTOCOMPATIBILITY** COMPLEX-BINDING **PEPTIDES**; MATRIX-BASED PREDICTION; PATHOGEN; RESEARCH; T CELLS; VIRAL DISEASE

ORGN Super Taxa
 Animalia - Unspecified: Animalia; Retroviridae: Viruses

ORGN Organism Name
 animal (Animalia - Unspecified); human immunodeficiency virus (Retroviridae); organisms (Organisms - Unspecified); Animalia (Animalia - Unspecified); HIV (Retroviridae)

ORGN Organism Superterms
 animals; microorganisms; viruses

L102 ANSWER 3 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 1996:156039 BIOSIS
 DN PREV199698728174
 TI Crystallographic analysis of endogenous **peptides** associated with HLA-DR1 suggests a common, polyproline II-like conformation for bound **peptides**.

AU Jardetzky, Theodore S.; Brown, Jerry H.; Gorga, Joan C.; Stern, Lawrence J.; Urban, Robert G.; Strominger, Jack L.; Wiley, Don C. (1)

CS (1) Dep. Mol. Cellular Biol., Harvard Univ., 7 Divinity Ave., Cambridge, MA 02138 USA

SO **Proceedings of the National Academy of Sciences of the United States of America**, (1996) Vol. 93, No. 2, pp. 734-738.
 ISSN: 0027-8424.

DT Article
 LA English
 AB The structure of the human major **histocompatibility** complex (**MHC**) class II molecule HLA-DR1 derived from the human lymphoblastoid cell line LG-2 has been determined in a complex with the *Staphylococcus aureus* enterotoxin B superantigen. The HLA-DR1 molecule contains a mixture of endogenous **peptides** derived from cellular or serum **proteins** bound in the antigen-binding site, which copurify with the class II molecule. Continuous electron density for 13 amino acid residues is observed in the **MHC peptide** -binding site, suggesting that this is the core length of **peptide** that forms common interactions with the **MHC** molecule. Electron density is also observed for side chains of the endogenous **peptides**. The electron density corresponding to **peptide** side chains that interact with the DR1-binding site is more clearly defined than the electron density that extends out of the binding site. The regions of the endogenous **peptides** that interact with DR1 are therefore either more restricted in conformation or sequence than the **peptide** side chains or amino acids that project out of the **peptide**-binding site. The hydrogen-bond interactions and conformation of a **peptide** model built into the electron density

are similar to other HLA-DR-**peptide** structures. The bound **peptides** assume a regular conformation that is similar to a polyproline type II helix. The side-chain pockets and conserved asparagine residues of the DR1 molecule are well-positioned to interact with **peptides** in the polyproline type II conformation and may restrict the range of acceptable **peptide** conformations.

- CC Microscopy Techniques - Electron Microscopy 01058
 Genetics and Cytogenetics - Human *03508
Biochemical Studies - Proteins, Peptides and Amino Acids *10064
 Biophysics - Molecular Properties and Macromolecules *10506
 Metabolism - Proteins, Peptides and Amino Acids *13012
 Digestive System - Pathology *14006
 Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and Reticuloendothelial System *15008
 Toxicology - General; Methods and Experimental 22501
 Physiology and Biochemistry of Bacteria 31000
 Immunology and Immunochemistry - General; Methods 34502
 Immunology and Immunochemistry - Bacterial, Viral and Fungal *34504
 Immunology and Immunochemistry - Immunopathology, Tissue Immunology *34508
 Medical and Clinical Microbiology - Bacteriology *36002
- BC Micrococcaceae 07702
 Hominidae *86215
- IT Major Concepts
 Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport and Circulation); Clinical Immunology (Human Medicine, Medical Sciences); Gastroenterology (Human Medicine, Medical Sciences); Genetics; Immune System (Chemical Coordination and Homeostasis); Infection; Metabolism
- IT Chemicals & Biochemicals
 POLYPROLINE II
- IT Sequence Data
 molecular sequence data; **peptide** sequence
- IT Miscellaneous Descriptors
 ELECTRON DENSITY; ENTEROTOXIN SUPERANTIGEN; HUMAN LG-2 LYMPHOBLASTOID CELLS; IMMUNE RESPONSE; MAJOR **HISTOCOMPATIBILITY** COMPLEX
- ORGN Super Taxa
 Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia;
 Micrococcaceae: Eubacteria, Bacteria
- ORGN Organism Name
 Hominidae (Hominidae); Staphylococcus aureus (Micrococcaceae)
- ORGN Organism Superterms
 animals; bacteria; chordates; eubacteria; humans; mammals;
 microorganisms; primates; vertebrates
- RN 26915-61-7 (POLYPROLINE II)
- L102 ANSWER 4 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 1995:384847 BIOSIS
 DN PREV199598399147
 TI Direct binding of the Mtv 7 superantigen (Mls-1) to **MHC** class II molecules.
 AU Hsu, P. (1); Mottershead, D. G. (1); **Urban**, R. G.; Strominger, J. L.; Huber, B. T. (1)
 CS (1) Tufts Univ. Sch. Med., Boston, MA USA
 SO 9TH INTERNATIONAL **CONGRESS** OF IMMUNOLOGY.. (1995) pp. 716. The 9th International **Congress** of Immunology.
 Publisher: 9th International **Congress** of Immunology San Francisco, California, USA.
 Meeting Info.: Meeting Sponsored by the American Association of **Immunologists** and the International Union of Immunological Societies San Francisco, California, USA July 23-29, 1995
- DT **Conference**
 LA English
 CC **General Biology - Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals 00520**

Biochemical Studies - Proteins, Peptides and Amino Acids 10064
 Biochemical Studies - Carbohydrates 10068
 Biophysics - Molecular Properties and Macromolecules *10506
 Virology - Animal Host Viruses *33506
 Immunology and Immunochemistry - Bacterial, Viral and Fungal *34504
 Medical and Clinical Microbiology - Virology *36006
 BC Retroviridae 02623
 Hominidae 86215
 Muridae *86375
 IT Major Concepts
 Biochemistry and Molecular Biophysics; Immune System (Chemical
 Coordination and Homeostasis); Infection; Microbiology
 IT Miscellaneous Descriptors
 BINDING SITE; MAJOR HISTOCOMPATIBILITY COMPLEX;
 MEETING ABSTRACT; STRUCTURE
 ORGN Super Taxa
 Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia; Muridae:
 Rodentia, Mammalia, Vertebrata, Chordata, Animalia; Retroviridae:
 Viruses
 ORGN Organism Name
 human (Hominidae); murine mammary tumor virus (Retroviridae); Muridae
 (Muridae)
 ORGN Organism Superterms
 animals; chordates; humans; mammals; microorganisms; nonhuman mammals;
 nonhuman vertebrates; primates; rodents; vertebrates; viruses

 L102 ANSWER 5 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 1995:282816 BIOSIS
 DN PREV199598297116
 TI HLA-DR immunization protects macaques from challenge with SIV propagated
 in human cells but not macaque cells.
 AU Arthur, Larry O. (1); Bess., Julian W., Jr. (1); Henderson, Louis E. (1);
 Urban, Robert; Mann, Dean; Benveniste, Raoul E.
 CS (1) AIDS Vaccine Prog., PRI/DynCorp, Frederick, MD 21702 USA
 SO Journal of Cellular Biochemistry Supplement, (1995) Vol. 0, No. 21B, pp.
 182.
 Meeting Info.: **Keystone Symposium on HIV Pathogenesis** Keystone,
 Colorado, USA April 17-23, 1995
 ISSN: 0733-1959.
 DT **Conference**
 LA English
 CC **General Biology - Symposia, Transactions and Proceedings of**
 Conferences, Congresses, Review Annuals 00520
 Cytology and Cytochemistry - Animal 02506
 Cytology and Cytochemistry - Human 02508
 Biochemical Studies - Proteins, Peptides and Amino Acids 10064
 Pathology, General and Miscellaneous - Therapy 12512
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
 Reticuloendothelial System *15008
 Virology - Animal Host Viruses 33506
 Immunology and Immunochemistry - Immunopathology, Tissue Immunology
 *34508
 Medical and Clinical Microbiology - Virology *36006
 BC Retroviridae 02623
 Cercopithecidae 86205
 Hominidae *86215
 IT Major Concepts
 Blood and Lymphatics (Transport and Circulation); Clinical Immunology
 (Human Medicine, Medical Sciences); Infection
 IT Miscellaneous Descriptors
 MAJOR HISTOCOMPATIBILITY COMPLEX; **MEETING**
 ABSTRACT
 ORGN Super Taxa
 Cercopithecidae: Primates, Mammalia, Vertebrata, Chordata, Animalia;
 Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia;
 Retroviridae: Viruses

ORGN Organism Name
 simian immunodeficiency virus (Retroviridae); Cercopithecidae
 (Cercopithecidae); Hominidae (Hominidae)
 ORGN Organism Superterms
 animals; chordates; humans; mammals; microorganisms; nonhuman mammals;
 nonhuman primates; nonhuman vertebrates; primates; vertebrates; viruses

L102 ANSWER 6 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1995:35268 BIOSIS

DN PREV199598049568

TI **Assembly and peptide binding of major histocompatibility complex class II heterodimers in an in vitro translation system.**

AU **Hedley, M. L.; Urban, R. G.; Strominger, J. L. (1)**

CS (1) Dep. Biochem. and Mol. Biol., Harvard Univ., 7 Divinity Ave., Cambridge, MA 02138 USA

SO **Proceedings of the National Academy of Sciences of the United States of America**, (1994) Vol. 91, No. 22, pp. 10479-10483.
 ISSN: 0027-8424.

DT Article

LA English

AB In vitro transcription/translation of HLA-DR1 cDNAs in the presence of microsomal membranes was used to study the association of major **histocompatibility complex class II molecules with peptide** and invariant chain (Ii) in the endoplasmic reticulum (ER). HLA-DR-alpha and HLA-DR-beta subunits assembled into SDS-unstable heterodimers in the absence of exogenous **peptide**. The inclusion of synthetic **peptides** during the alpha/beta **assembly** process promoted their conversion to SDS-resistant heterodimers. Addition of Ii RNA during the translation of HLA-DR-alpha and HLA-DR-beta RNAs resulted in the formation of alpha/beta/Ii complexes. **Peptide** binding by class II molecules was detected even when excess Ii was present during alpha/beta **assembly**. These findings indicate that **peptides** can bind alpha/beta heterodimers in the ER microenvironment and suggest that **peptides** derived from cytosolic **proteins** that are presented by class II molecules at the cell surface may have bound to HLA-DR in the ER.

CC Cytology and Cytochemistry - Animal 02506

Replication, Transcription, Translation *10300

Biophysics - Membrane Phenomena *10508

Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004

Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and

Reticuloendothelial System *15008

In Vitro Studies, Cellular and Subcellular *32600

Immunology and Immunochemistry - General; Methods *34502

BC Animalia - Unspecified *33000

IT Major Concepts

Blood and Lymphatics (Transport and Circulation); Cell Biology; Immune System (Chemical Coordination and Homeostasis); Membranes (Cell Biology); Molecular Genetics (Biochemistry and Molecular Biophysics)

IT Miscellaneous Descriptors

CELL SURFACE; HLA; RNA; TRANSCRIPTION

ORGN Super Taxa

Animalia - Unspecified: Animalia

ORGN Organism Name

Animalia (Animalia - Unspecified)

ORGN Organism Superterms

animals

L102 ANSWER 7 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1994:326069 BIOSIS

DN PREV199497339069

TI **The effect of pH on HLA-DR1 prebound self-peptides.**

AU **Urban, Robert G.; Chicz, Roman M.; Strominger, Jack L.**

CS Harvard Univ., Dep. Biochem. and Mol. Biol., Cambridge, MA 02138 USA

SO **Journal of Cellular Biochemistry Supplement**, (1994) Vol. 0, No. 18D, pp.

294.

Meeting Info.: **Keystone Symposium on Lymphocyte Activation**
 Keystone, Colorado, USA April 10-17, 1994
 ISSN: 0733-1959.

DT **Conference**
 LA English
 CC **General Biology - Symposia, Transactions and Proceedings of
 Conferences, Congresses, Review Annuals 00520**
 Cytology and Cytochemistry - Human *02508
 Genetics and Cytogenetics - Human *03508
Biochemical Methods - Proteins, Peptides and Amino Acids *10054
 Biochemical Methods - Carbohydrates 10058
Biochemical Studies - Proteins, Peptides and Amino Acids *10064
 Biochemical Studies - Carbohydrates *10068
 Biophysics - Molecular Properties and Macromolecules *10506
 Biophysics - Membrane Phenomena *10508
 Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies 15004
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
 Reticuloendothelial System *15008
 Immunology and Immunochemistry - General; Methods *34502
 Immunology and Immunochemistry - Immunopathology, Tissue Immunology
 *34508
 BC Hominidae *86215
 IT Major Concepts
 Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport
 and Circulation); Cell Biology; Clinical Immunology (Human Medicine,
 Medical Sciences); Genetics; Immune System (Chemical Coordination and
 Homeostasis); Membranes (Cell Biology); Methods and Techniques
 IT Miscellaneous Descriptors
 IN-VITRO **PEPTIDE EXCHANGE; LYMPHOCYTE ACTIVATION; MAJOR**
 HISTOCOMPATIBILITY COMPLEX CLASS II MOLECULE RECYCLING;
 MEETING ABSTRACT; MEETING POSTER
 ORGN Super Taxa
 Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia
 ORGN Organism Name
 human (Hominidae)
 ORGN Organism Superterms
 animals; chordates; humans; mammals; primates; vertebrates

L102 ANSWER 8 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1994:326052 BIOSIS

DN PREV199497339052

TI **Assembly of class II heterodimers in vitro.**

AU **Hedley, Mary Lynne; Urban, Robert G.; Strominger, Jack**
 L.

CS Harvard Univ., Dep. Biochem. and Mol. Biol., Cambridge, MA 02138 USA

SO Journal of Cellular Biochemistry Supplement, (1994) Vol. 0, No. 18D, pp.
 290.

Meeting Info.: **Keystone Symposium on Lymphocyte Activation**
 Keystone, Colorado, USA April 10-17, 1994
 ISSN: 0733-1959.

DT **Conference**
 LA English
 CC **General Biology - Symposia, Transactions and Proceedings of
 Conferences, Congresses, Review Annuals 00520**
 Cytology and Cytochemistry - Human *02508
 Genetics and Cytogenetics - Human *03508
 Biochemical Methods - Nucleic Acids, Purines and Pyrimidines 10052
Biochemical Methods - Proteins, Peptides and Amino Acids *10054
 Biochemical Studies - Nucleic Acids, Purines and Pyrimidines *10062
Biochemical Studies - Proteins, Peptides and Amino Acids *10064
 Biochemical Studies - Carbohydrates *10068
 Biophysics - General Biophysical Techniques 10504
 Biophysics - Molecular Properties and Macromolecules *10506
 Biophysics - Membrane Phenomena *10508
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and

Reticuloendothelial System *15008

Developmental Biology - Embryology - Morphogenesis, General *25508

In Vitro Studies, Cellular and Subcellular 32600

Immunology and Immunochemistry - Immunopathology, Tissue Immunology
*34508

BC Hominidae *86215

IT Major Concepts

Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport and Circulation); Cell Biology; Clinical Immunology (Human Medicine, Medical Sciences); Development; Genetics; Membranes (Cell Biology); Methods and Techniques

IT Miscellaneous Descriptors

DR1 HETERODIMER/INVARIANT CHAIN COMPLEX; ENDOPLASMIC RETICULUM;
IN-VITRO; LYMPHOCYTE ACTIVATION; MAJOR HISTOCOMPATIBILITY
COMPLEX CLASS II; MEETING ABSTRACT; MEETING

POSTER

ORGN Super Taxa

Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGN Organism Name

human (Hominidae)

ORGN Organism Superterms

animals; chordates; humans; mammals; primates; vertebrates

L102 ANSWER 9 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1994:177866 BIOSIS

DN PREV199497190866

TI A subset of HLA-B27 molecules contains **peptides** much longer than nonamers.

AU Urban, Robert G. (1); Chicz, Roman M. (1); Lane,

William S.; Strominger, Jack L. (1); Rehm, Armin; Kenter, Marcel J. H.;
Uytdehaag, Fons G. C. M.; Ploegh, Hidde; Uchanska-Ziegler, Barbara;
Ziegler, Andreas

CS (1) Dep. Biochem. Mol. Biol., Harvard Univ., Cambridge, MA 02138 USA

SO **Proceedings of the National Academy of Sciences of the United States of America**, (1994) Vol. 91, No. 4, pp. 1534-1538.
ISSN: 0027-8424.

DT Article

LA English

AB An unusual monoclonal antibody (MARB4) directed against HLA-B27 that reacts with only approx 5-20% of the cell surface HLA-B27 was used for large-scale purification of these molecules. Subsequent mass spectrometry of HLA-B27 bound **peptides** showed that the minor MARB4-reactive population contained **peptides** primarily from 900 to 4000 Da in size (approx 8-33 amino acid residues), whereas the major HLA-B27 population contained **peptides** in the mass range of 900-1400 Da (approx 8-12 amino acid residues). Thus, a subset of HLA-B27 molecules binds to **peptides** much longer than nonamers. Typical HLA-B27-binding **peptides** contain arginine in position 2. Further analysis by Edman sequencing of the pooled bound **peptides** revealed that the major population contained substantial amounts of arginine at positions 1 and 9 (40-50%) and exclusively arginine at position 2, as expected. The minor population of **peptides** also contained detectable amounts of arginine at these positions, but at the level of only approx 10%; no marked enrichment at any position was observed. These long HLA-B27-bound **peptides** could represent either intermediates in the formation of nonamers or adventitiously bound **peptides**. Lastly, in the TAP2 mutant cell line BM36.1 transfected with HLA-B*2705, MARB4-reactive HLA-B27 molecules were absent from the cell surface, indicating that the **peptide** transporter was required for delivery of the long **peptides**. Thus, during the folding of class I heavy chains, **peptides** of diverse lengths are available and participating.

CC Cytology and Cytochemistry - Human *02508

Biochemical Studies - Proteins, Peptides and Amino Acids *10064

Biophysics - Membrane Phenomena *10508

Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and

Reticuloendothelial System *15008
Immunology and Immunochemistry - Immunopathology, Tissue Immunology
*34508

BC Hominidae *86215
IT Major Concepts
 Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport
 and Circulation); Cell Biology; Clinical Immunology (Human Medicine,
 Medical Sciences); Membranes (Cell Biology)

IT Miscellaneous Descriptors
 HUMAN MAJOR HISTOCOMPATIBILITY COMPLEX

ORGN Super Taxa
 Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGN Organism Name
 Hominidae (Hominidae)

ORGN Organism Superterms
 animals; chordates; humans; mammals; primates; vertebrates

L102 ANSWER 10 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1993:241678 BIOSIS
DN PREV199344114878
TI Characterization of naturally processed self peptides bound to
 HLA-DR alleles.

AU Chicz, Roman M. (1); Urban, Robert G. (1); Gorga, Joan
 C. (1); Vignali, Dario A. (1); Lane, William S.; Strominger, Jack L. (1)
CS (1) Dep. Biochem. Mol. Biol., Harvard Univ., Cambridge, MA 02138 USA
SO Journal of Cellular Biochemistry Supplement, (1993) Vol. 0, No. 17 PART C,
 pp. 66.
 Meeting Info.: Keystone Symposium on Emerging Principles for Vaccine
 Development: Antigen Processing and Presentations Taos, New Mexico,
 USA February 8-14, 1993
 ISSN: 0733-1959.

DT Conference
LA English
CC General Biology - Symposia, Transactions and Proceedings of
 Conferences, Congresses, Review Annuals 00520
 Cytology and Cytochemistry - Human 02508
 Genetics and Cytogenetics - Human *03508
 Biochemical Studies - Proteins, Peptides and Amino Acids *10064
 Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
 Reticuloendothelial System *15008
 Immunology and Immunochemistry - Immunopathology, Tissue Immunology
 *34508

BC Hominidae *86215
IT Major Concepts
 Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport
 and Circulation); Clinical Immunology (Human Medicine, Medical
 Sciences); Genetics

IT Miscellaneous Descriptors
 ABSTRACT; B CELLS; IMMUNOMODULATORS; MAJOR
 HISTOCOMPATIBILITY COMPLEX

ORGN Super Taxa
 Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGN Organism Name
 Hominidae (Hominidae)

ORGN Organism Superterms
 animals; chordates; humans; mammals; primates; vertebrates

L102 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1992:318275 BIOSIS
DN BR43:19000
TI BIOCHEMICAL ANALYSIS OF NATURALLY PROCESSED PEPTIDES BOUND TO
 HUMAN CLASS II MOLECULES.

AU URBAN R G; CHICZ R C; GORGA J C; LANE W S; STERN L J; VIGNALI
 D; STROMINGER J L
CS DEP. BIOCHEM. MOLECULAR BIOL., HARVARD UNIV., CAMBRIDGE, MASS. 02138.

SO KEYSTONE **SYMPOSIUM** ON ANTIGEN PRESENTATION FUNCTIONS OF THE MHC
(MAJOR HISTOCOMPATIBILITY COMPLEX), TAOS, NEW MEXICO, USA, MARCH 5-11,
1992. J CELL BIOCHEM SUPPL. (1992) 0 (16 PART D), 41.
CODEN: JCBSD7.

DT **Conference**

FS BR; OLD

LA English

CC **General Biology - Symposia, Transactions and Proceedings of
Conferences, Congresses, Review Annuals 00520**
Cytology and Cytochemistry - Human *02508
Genetics and Cytogenetics - Human *03508
Biochemical Studies - Proteins, Peptides and Amino Acids *10064
Biophysics - Molecular Properties and Macromolecules 10506
Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
Reticuloendothelial System *15008
Immunology and Immunochemistry - Immunopathology, Tissue Immunology
*34508

BC Hominidae 86215

IT Miscellaneous Descriptors

**ABSTRACT MAJOR HISTOCOMPATIBILITY COMPLEX CLASS II
ANTIGEN PRESENTING CELL ALLELIC VARIATION**

L102 ANSWER 12 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1992:318155 BIOSIS

DN BR43:18880

TI **PEPTIDE** BINDING TO HLA-A2 FROM THE MUTANT HUMAN CELL LINE.

AU **CHICZ R M; URBAN R G**; LANE W S; STROMINGER J L

CS DEP. BIOCHEM. AND MOL. BIOL., HARVARD UNIV., CAMBRIDGE, MASS. 02138.

SO KEYSTONE **SYMPOSIUM** ON ANTIGEN PRESENTATION FUNCTIONS OF THE MHC
(MAJOR HISTOCOMPATIBILITY COMPLEX), TAOS, NEW MEXICO, USA, MARCH 5-11,
1992. J CELL BIOCHEM SUPPL. (1992) 0 (16 PART D), 11.
CODEN: JCBSD7.

DT **Conference**

FS BR; OLD

LA English

CC **General Biology - Symposia, Transactions and Proceedings of
Conferences, Congresses, Review Annuals 00520**
Cytology and Cytochemistry - Human *02508
Genetics and Cytogenetics - Human *03508
Biochemical Studies - Proteins, Peptides and Amino Acids *10064
Biophysics - Molecular Properties and Macromolecules *10506
Biophysics - Membrane Phenomena *10508
Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
Reticuloendothelial System *15008
Immunology and Immunochemistry - Immunopathology, Tissue Immunology
*34508

BC Hominidae 86215

IT Miscellaneous Descriptors

ABSTRACT MAJOR HISTOCOMPATIBILITY COMPLEX CLASS I

=> fil wpix

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=> d max

L103 ANSWER 1 OF 1 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 2000-224317 [19] WPIX
DNC C2000-068486
TI An expressed protein tag ligand profile characteristic for a given cell
and computer-assisted manipulation of the profile, useful for, e.g.
determining diseased versus normal cells.
DC B04 D16
IN CHICZ, R M; HEDLEY, M L; HSU, C; URBAN, R G
PA (ZYCO-N) ZYCOS INC
CYC 86
PI WO 2000009654 A2 20000224 (200019)* EN 126p C12N000-00 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ UG ZW
W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT UA UG US UZ VN YU ZA ZW
AU 9953367 A 20000306 (200030) C12N000-00
ADT WO 2000009654 A2 WO 1999-US17680 19990804; AU 9953367 A AU 1999-53367
19990804
FDT AU 9953367 A Based on WO 200009654
PRAI US 1999-135728 19990525; US 1998-96291 19980812; US 1998-133094
19980812
IC ICM C12N000-00
AB WO 200009654 A UPAB: 20000419
NOVELTY - An expressed protein tag ligand profile characteristic for a
given cell is new.
DETAILED DESCRIPTION - A ligand profile which is characteristic for a
given cell, comprises a representation of at least 10 different
polypeptide ligands, all of which bind to a single type of multi-ligand
binding receptor, where the representation characterizes each individual
ligand based upon at least:
(a) 3 physical or chemical attributes;
(b) 2 physical or chemical attributes, one of the attributes being
mass or mass-to-charge ratio, and
(c) 1 physical or chemical attribute comprising amino acid sequence,
provided that if the multi-ligand binding receptor is an MHC class I or II
receptor, then for (a) and (b) at least 500, and for (c) at least 50,
polypeptide ligands are represented in the ligand profile and further
provided that the ligand profile is a reproducible characteristic of the
cell.
INDEPENDENT CLAIMS are also included for the following:
(1) a method of generating a reproducible ligand profile for a given
cell type; a method of generating a subtraction profile of polypeptide
ligands; a subtraction profile generated by (2);
(2) a method of comparing a first cell sample to a reference cell
sample; a set of ligand profiles;
(3) a method of detecting a difference between the set of proteins
expressed in a first cell and the set of proteins expressed in a second
cell;
(4) a differential profile generated by (6);
(5) a database, stored on a machine-readable medium comprising 3
categories of data respectively representing ligand profiles, cell sources
and receptor types and associations among instances of the 3 categories of
data, where the database configures a computer to enable finding instances
of data of one of the categories based on their associations with
instances of data of another one of the categories;
(6) a machine-implemented method comprising forming a query for

searching a database as in (8), and

(7) a machine-based method of investigation.

USE - The methods can be used for generating a reproducible ligand profile for a given cell type and for generating a subtraction profile of polypeptide ligands. A characteristic profile or fingerprint of polypeptide ligands can be generated for a given cell type, for diseased versus normal cells, for different metabolic or development states of a cell. The methods can be used to monitor treatment of diseased cells using a candidate drug regimen. The profiles can also be used to characterize gene expression patterns in transgenic and knockout animals. The database can be used for manipulation of the data obtained from the ligand profiles.

ADVANTAGE - None given.

Dwg.0/6

TECH WO 200009654 A2UPTX: 20000419

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Profiles: The ligand profile which is characteristic for a given cell preferably comprises ion fragmentation patterns or amino acid sequences where the ligands have distinct core peptides, provided that at least 100 polypeptide ligands are represented in the profile. The multi-ligand binding receptor is(not) an MHC class I or II receptor. It is preferably a chaperonin, a calnexin, a calreticulin, a mannosidase, a N-glycanase, a BIP, a grp94, a grp96, hsp60, hsp65, hsp70, hsp90, hsp25, an E2 or E3 ubiquitin carrier protein, an unfoldase, hsp100, a proteosome, a trafficking protein or a retention protein. The ligand profile is preferably combined with a second ligand profile, which is also a reproducible characteristic of the given cell and is a representation of at least an additional 10 polypeptides, all of which bind to a second type of multi-ligand binding receptor different from the first type of receptor.

KW [1] 184616-0-0-0 CL DET NEW PRD; 200757-0-0-0 CL DET

FS CPI

FA AB; DCN

MC CPI: B01-C09; B04-C01; B04-K01; B04-N04; B11-C08; B11-C08E1; D05-H09; D05-H10

CMC UPB 20000419

M1 *01* M423 M710 M720 M750 M905 N102 N104 Q233
DCN: RA00H3-A; RA00H3-N; RA00H3-P

M1 *02* M423 M750 M905 N102 Q233
DCN: RA00GT-K; RA00GT-A

M6 *03* M905 P831 Q505 R502 R515 R521 R637 R639

=> d all abeq tech tot 1120

L120 ANSWER 1 OF 4 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD

AN 2000-013251 [01] WPIX

DNN N2000-010268 DNC C2000-002522

TI Identifying mutant peptides from heat-shock protein 70, for treatment of cancer.

DC B04 D16 S03

IN GAUDIN, C; TRIEBEL, F

PA (INSR) INST ROUSSY GUSTAVE

CYC 87

PI WO 9954464 A1 19991028 (200001)* FR 55p C12N015-12 <--

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT UA UG US UZ VN YU ZA ZW

FR 2777890 A1 19991029 (200001) C07K007-06 <--

AU 9934258 A 19991108 (200014) <--

EP 1073733 A1 20010207 (200109) FR C12N015-12 <--

R: BE CH DE ES FR GB IT LI NL

ADT WO 9954464 A1 WO 1999-FR957 19990422; FR 2777890 A1 FR 1998-5033 19980422;

AU 9934258 A AU 1999-34258 19990422; EP 1073733 A1 EP 1999-915813
 19990422, WO 1999-FR957 19990422

FDT AU 9934258 A Based on WO 9954464; EP 1073733 A1 Based on WO 9954464
 PRAT FR 1998-5033 19980422

IC ICM C07K007-06; C12N015-12
 ICS A61K038-08; A61K038-17; A61K039-395; A61K048-00; C07K014-47;
 C07K016-18; C12N005-10; C12N015-63; C12N015-74; C12N015-85;
 G01N033-577; G01N033-68

AB WO 9954464 A UPAB: 20000105

NOVELTY - Identifying peptides (I), derived from heat-shock protein 70 (hsp70) that stimulate a tumor-specific T cell response is new.

DETAILED DESCRIPTION - Identifying (I) from heat-shock protein 70 (hsp70), that

- (1) have at least one mutation or alteration compared with the native sequence, and
- (2) induce a tumor-specific T-cell response, the method comprising:
 - (i) amplifying hsp70-encoding DNA from one or more tumors;
 - (ii) cloning in a vector that can be replicated in bacteria;
 - (iii) sequencing fragments in each cultured bacterial colony to identify any hsp70 mutations, and
 - (iv) determining the immunogenicity of the mutant peptides identified.

INDEPENDENT CLAIMS are also included for the following:

- (a) detecting artificial point mutations or alterations that increase immunogenicity of mutated (I) by identifying 9-10 amino acid (aa) fragments that include a motif for anchorage to a selected HLA (human leucocyte antigen) molecule, introducing an additional mutation at positions 4-8 and determining immunogenicity of the products;
- (b) (I) containing at least 8 consecutive aa from hsp70;
- (c) DNA fragments (II) that encode (I);
- (d) expression vector containing (II) fused to strong promoter functional in eukaryotic and/or prokaryotic, especially human, cells;
- (e) dendritic cells loaded with (I) or transformed with the vector of (d);
- (f) composition containing (I), vectors of (d), (II) or cells of (e) plus a vehicle;
- (g) combined preparation comprising (I) and an agent (III) that induces cellular stress, for simultaneous, separate or staged use for treatment of cancer;
- (h) production of antibodies (Ab) that bind to hsp70 mutants, specifically the hsp70-2-I-293 mutant, by immunizing animals with (I);
- (i) monoclonal Ab;
- (j) detecting mutant hsp70 using Ab;
- (k) kits containing Ab for diagnosis and prognosis of cancer; and
- (l) a composition containing Ab and a vehicle.

ACTIVITY - Anticancer.

MECHANISM OF ACTION - (I) induce a specific T cell immune response against tumor and break tolerance to the native form of hsp70.

USE - (I), optionally formulated with an agent (III) that induces cellular stress, are used for treatment of cancer, particularly solid cancers (carcinoma, sarcoma, melanoma, neuroblastoma, cancers of head and neck, particularly kidney cancer). Repeated administration of (I) breaks immune tolerance to the native hsp70. (I) may also be used to increase the proportion of tumor-specific cytotoxic T lymphocytes in a cell culture and/or induce these cells to secrete cytotoxic factors (specifically interleukin-2, interferon gamma and tumor necrosis factor), particularly where the cells are used to stimulate immune defenses. Antibodies raised against (I) are used as immunoassay reagents for detecting (I), particularly for diagnosis and prognosis of tumors, also therapeutically against cancer.

ADVANTAGE - The method identifies peptides with high immunogenicity and high specificity for particular HLA (human leucocyte antigen) alleles. CD8+ cells were isolated from HLA-A2 donors and incubated with an equal number of T2 (HLA-A2.1) cells loaded with 1 μ M peptide. After 20 hr, the cells were analyzed by the 'Elispot' method for secretion of interferon gamma. Where cells were loaded with the preferred peptides

SLFEGIDIY(T)n, the interferon concentration was higher, in every case, than when they were loaded with native hsp70, typically about double.

Dwg.0/9

FS CPI EPI

FA AB; DCN

MC CPI: B04-C01B; B04-E02B; B04-E03B; B04-E08; B04-F04; B04-F1000E; B04-G02; B04-H01; B04-L04A; B04-N02; B04-N02A; B11-C07A; B11-C08E1; B11-C08E3; B12-K04A1; B12-K04F; B14-H01; B14-S11C; D05-H07; D05-H09; D05-H11A; D05-H12A; D05-H12E; D05-H14; D05-H17A; D05-H18A
EPI: S03-E14H

TECH UPTX: 20000105

TECHNOLOGY FOCUS - BIOLOGY - Preferred Process: Immunogenicity is determined by the 'Elispot' method, particularly detection and or quantification of T CD8+ cells that secrete tumor necrosis factor alpha (TNFa), or other cytokines. The mutant peptides tested are selected for presence of an HLA-anchorage motif.

Preferred Peptides: (I) have at least 80% homology with the aa region 286-294 of hsp70, preferably with position 293 occupied by I (best), L, V, A, G or F. (I) may include at least one component that is not a natural amino acid and may be modified conventionally, e.g. to improve stability, bioavailability, affinity for HLA etc.

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Vectors: These are viral vectors, plasmids or pseudovectors and may also include at least one of selection marker and immunostimulant, e.g. a cytokine and/or lymphokine.

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Compositions: Compositions of (f) and (g) may include one or more adjuvants, particularly cytotoxins from tumors. In products of (g), (III):

(1) induces overexpression of heat shock proteins, particularly hsp70;
(2) induces apoptosis (particularly it damages DNA, is a glucocorticoid receptor ligand or a pro-apoptotic second messenger) or
(3) induces hypoxia in tumors (particularly an anti-angiogenic agent).
Alternatively (III) is a viral vector encoding an enzyme that activates po-apoptotic agents, e.g. thymidine kinase.

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preparation: (I) are made by usual methods of peptide synthesis.

L120 ANSWER 2 OF 4 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD

AN 1999-418411 [35] WPIX

DNC C1999-122904

TI Single chain major histocompatibility complex class I complexes.

DC B04 D16

IN ACEVEDO, J; BURKHARDT, M; JIAO, J; RHODE, P R; WONG, H C

PA (SUNO-N) SUNOL MOLECULAR CORP

CYC 82

PI WO 9921572 A1 19990506 (199935)* EN 148p A61K038-00 <--
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SZ UG ZW
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE
GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG
UZ VN YU ZW

AU 9898001 A 19990517 (199939) A61K038-00 <--

EP 1027066 A1 20000816 (200040) EN A61K038-00 <--

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

ADT WO 9921572 A1 WO 1998-US21520 19981013; AU 9898001 A AU 1998-98001
19981013; EP 1027066 A1 EP 1998-952256 19981013, WO 1998-US21520 19981013

FDT AU 9898001 A Based on WO 9921572; EP 1027066 A1 Based on WO 9921572

PRAI US 1997-960190 19971029

IC ICM A61K038-00

ICS C07K014-74; C12N015-09; C12N015-12

AB WO 9921572 A UPAB: 19990902

NOVELTY - New single chain major histocompatibility complex (sc-MHC) class II complexes comprise a peptide binding groove, and a modified class II

beta 2 chain or covalently linked immunoglobulin (Ig) light chain constant (C1) region.

DETAILED DESCRIPTION - An empty sc-MHC class II molecule comprising a peptide binding groove and:

(a) a class II beta 2 chain comprising at least one amino acid substitution or deletion; or

(b) covalently linked IgC1 region or fragment.

INDEPENDENT CLAIMS are also included for the following:

(1) an empty sc-MHC class II fusion comprising a peptide binding groove, where the molecule comprises covalently linked in sequence:

(a) an MHC class II beta 1 chain or presenting peptide binding portion;

(b) a modified class II beta 2 chain;

(c) a peptide linker sequence; and

(d) an MHC class II alpha 1 alpha 2 chain or presenting peptide binding portion;

(2) an empty sc-MHC class II fusion comprising a peptide binding groove, where the molecule comprises covalently linked in sequence:

(a) an MHC class II beta 1 beta 2 chain or presenting peptide binding portion;

(b) a peptide linker sequence;

(c) an MHC class II alpha 1 alpha 2 chain or presenting peptide binding portion; and

(d) an IgC1 region fragment;

(3) sc-MHC class II fusion proteins comprising a recombinantly fused presenting peptide and;

(a) a class II beta 2 chain; or

(b) covalently linked IgC1 region or fragment;

(4) sc-MHC class II fusion proteins comprising a peptide-binding groove, the sc-MHC class II fusion molecule comprising covalently linked in sequence a presenting peptide and an empty sc-MHC as in (1) or (2);

(5) an empty polyspecific MHC complex or fusion comprising a sc-MHC class following the general formula (I);

(6) a polyspecific MHC complex or fusion comprising an empty sc-MHC class II molecule comprising a peptide binding groove, the complex being represented by the formulae A-B-C, B-A-C or A-C-B, provided that when the complex is A-C-B, -C- is not -H;

(7) loaded sc-MHC produced by contacting an empty sc-MHC or polyspecific MHC as above with a presenting peptide under conditions which form a complex between the presenting peptide and the (at least one) empty sc-MHC;

(8) a DNA segment encoding the sc-MHC class II molecule of (1), (2) or (3);

(9) a DNA segment encoding a portion of a sc-MHC class II fusion comprising a peptide-binding groove and an empty sc-MHC as in (2), or a polyspecific MHC complex as in (6);

(10) DNA vectors comprising DNA as in (8) or (9); and

(11) manufacture of a sc-MHC class II molecule or polyspecific MHC complex.

A = at least one empty sc-MHC class II molecule;

B, B1, B2 = are each independently a joining molecule the same or different;

C, C1, C2 = are each independently an effector molecule the same or different; and D = at least one empty sc-MHC class II molecule, ligand binding molecule or -H

ACTIVITY - ACTIVITY - Immunosuppressive.

MECHANISM OF ACTION - Vaccine.

USE - The MHC complexes are useful for detection and analysis of peptide ligands, pathogenic T-cells, for functional, cellular and molecular assays. They can be used to identify and/or isolate T cell receptor and/or MHC agonists and antagonists. They can be used in vivo to compete with pathogenic antigen presenting cells involved in immune-related disorders. They can also be used to raise antibodies and to screen immune cells. It is also use in a method of suppressing an immune response in mammals (claimed).

ADVANTAGE - The sc-MHC complexes comprising modified class II beta 2

chains and/or Ig-C1 regions are soluble and provide enhanced yield. These MHC complexes also can contain single antigenic peptides readily isolated from expressing cells in significant quantities. The polyspecific MHC complexes also provide a means to detect cells expressing multiple target structures with a single complex.

DESCRIPTION OF DRAWING(S) - In vivo expression of sc-IAd/OVA suppresses T-cell clonal expansion.

Dwg.8B/8

FS CPI

FA AB; GI; DCN

MC CPI: B04-C01; B04-E01; B04-E08; B04-N04; B12-K04A; B14-G02; D05-C12; D05-H09; D05-H12A; D05-H12E; D05-H17C

TECH UPTX: 19990902

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Complexes: The class II beta2 chain is completely deleted, and the sc-MHC class II molecule further comprises an IgC1 region fragment.

L120 ANSWER 3 OF 4 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD

AN 1993-303460 [38] WPIX

DNC C1993-135206

TI New protein forming complex with heat shock protein - also binding immuno-suppressors, etc., and corresp. nucleic acid antibodies etc., useful e.g. for detecting tumours, treating auto-immune disease, etc..

DC B04 D16

IN BAULIEU, E; CALLEBAUT, I; CHAMBRAUD, B; LEBEAU, M; MASSOL, N; MORNON, J; RADANYI, C; RENOIR, M

PA (INRM) INSERM INST NAT SANTE & RECH MEDICALE

CYC 18

PI WO 9318146 A2 19930916 (199338)* FR 43p C12N015-12 <--
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
W: JP US

FR 2688227 A1 19930910 (199346) 37p C12N015-12 <--

WO 9318146 A3 19931111 (199514) C12N015-12 <--

ADT WO 9318146 A2 WO 1993-FR219 19930304; FR 2688227 A1 FR 1992-2612 19920304;

WO 9318146 A3 WO 1993-FR219 19930304

PRAI FR 1992-2612 19920304

REP No-SR.Pub; 2.Jnl.Ref; WO 9104321; WO 9201052

IC ICM C12N015-12

ICS C07K013-00; C12N001-21; C12N015-63; C12P021-08; C12Q001-68; G01N033-536

AB WO 9318146 A UPAB: 19931123

New nucleotide sequence (I) comprises, or consists of, a chain which can hybridise under stringent conditions, with one or more sequences of a gene the cDNA from which has a structure defined in the specification.

Also new are (1) RNA (and complementary sequences) and proteins derived from (I); (2) recombinant cloning and expression vectors contg. (I); (3) microorganisms contg. (I) or these vectors; (4) amino acid sequences (A) deduced from (I); (5) complexes of (A) with heat shock protein (hsp) 90, or other hsp; (6) antibodies (monoclonal or polyclonal) specific for (A) and their complexes.

Partic. (I) contains all or part of the open reading frame extending from position 4 to 1380 of the specified sequence.

USE/ADVANTAGE - (I), isolated from rabbit liver, encodes a protein able to complex hsp 90 (a 'chaperone' protein which can bind to many ligands such as steroid hormone receptors, vitamin D, and tyrosine kinases of viral oncogenes), even when this is part of a hetero-oligomer with other proteins. (I)-derived probes can be used to detect genes producing protein reactive with hsp 60, esp. early expression of such genes may be useful for assessing development and/or differentiation of tumours. Antibodies can be used to detect expression products of (I), also to detect immunosuppressor receptors and to reduce the endocrinal side effects of immunosuppressors. (A) can be used to study, prevent or treat diseases (e.g. autoimmune disease, cancer, rickets, or dioxin poisoning) associated with dysfunction of proteins which form complexes with hsp90 and to localise such proteins. In particular, the proteins reactive with hsp 90 are normally confined to the nucleus but in tumour cells are also

present in the cytoplasm.

Dwg.0/8

FS CPI

FA AB

MC CPI: B04-B02B; B04-B04A; B04-B04C6; B04-C01; B12-A01; B12-A06; B12-D02A; B12-G07; B12-J05C; B12-J08; D05-H03B; D05-H09; D05-H11; D05-H12

ABEQ FR 2688227 A UPAB: 19940103

New nucleotide sequence (I) comprises, or consists of, a chain which can hybridise under stringent conditions, with one or more sequences of a gene the cDNA from which has a structure defined in the specification.

Also new are (1) RNA (and complementary sequences) and proteins derived from (I); (2) recombinant cloning and expression vectors contg. (I); (3) microorganisms contg. (I) or these vectors; (4) amino acid sequences (A) deduced from (I); (5) complexes of (A) with heat shock protein (hsp) 90, or other hsp; (6) antibodies (monoclonal or polyclonal) specific for (A) and their complexes.

Partic. (I) contains all or part of the open reading frame extending from position 4 to 1380 of the specified sequence.

USE/ADVANTAGE - (I), isolated from rabbit liver, encodes a protein able to complex hsp 90 (a 'chaperone' protein which can bind to many ligands such as steroid hormone receptors, vitamin D, and tyrosine kinases of viral oncogenes), even when this is part of a hetero-oligomer with other proteins. (I)-derived probes can be used to detect genes producing protein reactive with hsp 60, esp. early expression of such genes may be useful for assessing development and/or differentiation of tumours. Antibodies can be used to detect expression products of (I), also to detect immunosuppressor receptors and to reduce the endocrinal side effects of immunosuppressors. (A) can be used to study, prevent or treat diseases (e.g. autoimmune disease, cancer, rickets, or dioxin poisoning) associated with dysfunction of proteins which form complexes with hsp90 and to localise such proteins. In particular, the proteins reactive with hsp 90 are normally confined to the nucleus but in tumour cells are also present in the cytoplasm.

Dwg.0/6

L120 ANSWER 4 OF 4 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD

AN 1991-310357 [42] WPIX

DNC C1991-134410

TI Chimeric monoclonal antibodies with receptor binding ligand - are immunologically active and useful for treating drugs, especially in treatment of cerebral tumours and dementia.

DC B04 D16

IN MORRISON, S L; SHIN, S; SHIN, S U

PA (UYCO) UNIV COLUMBIA NEW YORK; (UYCO-N) COLUMBIA UNIV NEW Y

CYC 18

PI WO 9114438 A 19911003 (199142)* <--

RW: AT BE CH DE DK ES FR GB GR IT LU NL SE

W: AU CA JP US

AU 9175582 A 19911021 (199203) <--

EP 521985 A1 19930113 (199302) EN 110p A61K035-14 <--

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

JP 05506574 W 19930930 (199344) 30p C12P021-08 <--

AU 654811 B 19941124 (199503) C07K015-12 <--

EP 521985 A4 19930324 (199525) <--

EP 521985 B1 19970924 (199743) EN 68p C12N015-13 <--

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DE 69127749 E 19971030 (199749) C12N015-13 <--

ADT EP 521985 A1 EP 1991-906955 19910320, WO 1991-US1844 19910320; JP 05506574

W JP 1991-507276 19910320, WO 1991-US1844 19910320; AU 654811 B AU

1991-75582 19910320; EP 521985 A4 EP 1991-906955 ; EP 521985 B1 EP

1991-906955 19910320, WO 1991-US1844 19910320; DE 69127749 E DE

1991-627749 19910320, EP 1991-906955 19910320, WO 1991-US1844 19910320

FDT EP 521985 A1 Based on WO 9114438; JP 05506574 W Based on WO 9114438; AU

654811 B Previous Publ. AU 9175582, Based on WO 9114438; EP 521985 B1

Based on WO 9114438; DE 69127749 E Based on EP 521985, Based on WO 9114438

PRAI US 1990-496409 19900320

REP 4.Jnl.Ref; US 4816567; 2.Jnl.Ref; EP 271227; EP 323806; EP 439095; WO 8809344

IC ICM A61K035-14; C07K015-12; C12N015-13; C12P021-08
ICS A61K037-02; A61K037-04; A61K039-395; A61K047-48; C07K013-00;
C07K015-22; C07K016-18; C12N005-00; C12N015-17; C12N015-18;
C12N015-62; C12P021-02

AB WO 9114438 A UPAB: 19971113

The mAbs comprise 2 molecules each of 2 different polypeptides functioning as the light and heavy chains of the Ab. Each longer (heavy) polypeptide chain has a variable region characteristic of a first mammal and a constant region characteristic of a second mammal. Each shorter (light) chain has mammalian variable and constant regions. A receptor-binding ligand replaces at least a portion of the constant region of each of the polypeptides which function as heavy chains. Preferably the light chain is characteristic of either the first or second mammal. Mouse-human chimeric Abs are preferred.

The receptor-binding ligand is preferably a growth factor, TNF, transferring or a lymphokine. The mAb is preferably IgG, IgA, IgD, IgE or IgM. The variable region is preferably a T cell receptor domain, an MHC Ag domain or a surface glycoprotein CD4/CD8 domain.

Immunologically active complexes as above are also claimed. The chimeric polypeptides forming the heavy and light chains are claimed together with expression vectors for their preparation. A moiety, specifically a drug (methotrexate or a toxin) or a label, may be attached to the mAb. Production of the mAbs by recombinant techniques is also claimed.

USE/ADVANTAGE - Drug delivery utilising the mAbs linked to a drug moiety is claimed, especially where the receptor-binding ligand is a growth factor. Drugs can be targetted specifically to blood, muscle, nerve, bone, epithelial and, especially, brain cells in the treatment of progressive dementia, cerebral cortical atrophy, malignant neurosarcoma, lymphoma etc. where the growth factor binding results in transport of the Ab across the blood-brain barrier. Also claimed is treatment of malignant cells in general. Pharmaceutical compositions containing the mAbs are also claimed. @(110pp Dwg.No.0/16)@

FS CPI

FA AB

MC CPI: B04-B02D2; B04-B04A1; B04-B04A3; B04-B04C5; B04-B04J; B04-C01;
B06-D09; B06-F03; B11-C07A3; B11-C07A4; B12-G07; B12-K04A1; D05-C11;
D05-H09; D05-H11; D05-H12

ABEQ JP 05506574 W UPAB: 19931213

The mAbs comprise 2 molecules each of 2 different polypeptides functioning as the light and heavy chains of the Ab. Each longer (heavy) polypeptide chain has a variable region characteristic of a first mammal and a constant region characteristic of a second mammal. Each shorter (light) chain has mammalian variable and constant regions. A receptor-binding ligand replaces at least a portion of the constant region of each of the polypeptides which function as heavy chains. Preferably the light chain is characteristic of either the first or second mammal. Mouse-human chimeric Abs are preferred.

The receptor-binding ligand is pref. a growth factor, TNF, transferring or a lymphokine. The mAb is preferably IgG, IgA, IgD, IgE or IgM. The variable region is preferably a T cell receptor domain, an MHC Ag domain or a surface glycoprotein CD4/CD8 domain.

Immunologically active complexes as above are also claimed. The chimeric polypeptides forming the heavy and light chains are claimed together with expression vectors for their preparation. A moiety, specifically a drug (methotrexate or a toxin) or a label, may be attached to the mAb. Production of the mAbs by recombinant techniques is also claimed. Also claimed is treatment of malignant cells in general and pharmaceutical compositions containing the mAbs.

USE/ADVANTAGE - Drug delivery utilising the mAbs linked to a drug moiety is claimed, especially where the receptor-binding ligand is a growth factor. Drugs can be targetted specifically to blood, muscle, nerve, bone, epithelial and, especially, brain cells in the treatment of progressive dementia, cerebral cortical atrophy, malignant neurosarcoma,

lymphoma, etc. where the growth factor binding results in transport of the Ab across the blood-brain barrier.

ABEQ EP 521985 B UPAB: 19971030

A modified chimeric monoclonal antibody comprising two molecules of each of two different polypeptides, the shorter of which functions as the light chains of the antibody and the longer of which polypeptides function as the heavy chains of the antibody, each polypeptide which functions as a heavy chain having a variable region characteristic of a first mammal and a constant region characteristic of a second mammal, and each polypeptide which functions as a light chain having a variable region characteristic of a mammal and a constant region characteristic of a mammal, wherein a receptor-binding ligand is covalently attached to the ends of the constant regions of each of the polypeptides which function as the heavy chains of the antibody.

Dwg.0/11

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FILE LAST UPDATED: 15 Feb 2001 (20010215/ED)

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=> d all tot

L153 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:842156 HCAPLUS

DN 134:14918

TI Green fluorescent protein analogs containing **ligand-binding** sensor peptides for use as reporter moieties

IN Tsien, Roger Y.; Baird, Geoffrey A.

PA Regents of the University of California, USA

SO PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K

CC 9-2 (Biochemical Methods)

Section cross-reference(s): 3

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2000071565 A2 20001130 WO 2000-US13684 20000517
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-316919 19990521
 US 1999-316920 19990521

AB The present invention provides polypeptide and polynucleotides encoding fluorescent indicators having inserted within a fluorescent moiety a sensor polypeptide. The proteins are derivs. that are not normally fluorescent as a result of FRET coupling. -Binding of a **ligand** to the sensor results in a conformational change and an increase in fluorescence of the protein. Also provided are methods of using the fluorescent indicator. Circularly permuted fluorescent polypeptides and polynucleotides are also provided.

ST green fluorescent protein sensor peptide fusion product fluorometric analysis; circular permutation green fluorescent protein sensor peptide fusion product

IT Transcription factors
 RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Egr-1, peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT EF hand
 (GFP analogs contg., for calcium detection; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT **Heat-shock proteins**
 RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HSP 90.alpha., peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT Proteins, specific or class
 RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MARCKS (myristoylated alanine-rich C-kinase substrate), peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT Histocompatibility antigens
 RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MHC (major histocompatibility complex), dil., peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT Protein motifs
 (PTB (phosphotyrosine-binding) domain, GFP analogs contg., for calcium detection; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT Protein motifs
 (SH2 domain, GFP analogs contg., for calcium detection; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

- IT Protein motifs
(SH3 domain, GFP analogs contg., for calcium detection; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Phosphoproteins
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(adducins, peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Proteins, specific or class
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(calipermins, peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Receptors
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(carbohydrate, peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Protein engineering
(circular permutation, of green fluorescent protein analogs; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Escherichia coli
Yeast
(expression host; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Chimeric gene
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(for GFP fusion products, expression in microbial hosts; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Glycoproteins, specific or class
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gp160, peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Proteins, specific or class
RL: ARU (Analytical role, unclassified); PRP (Properties); ANST (Analytical study)
(green fluorescent, fusion products; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Animal cell
(mammalian, expression host; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Receptors
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(nitric oxide, peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)
- IT Proteins, specific or class
RL: ARU (Analytical role, unclassified); BUU (Biological use,

unclassified); ANST (Analytical study); BIOL (Biological study); USES
(Uses)
(nucleotide-binding, peptides of, as sensor moieties in green
fluorescent proteins; GFP analog fusion products showing FRET quenching
and contg. **ligand**-binding sensor peptides for use as reporter
moieties)

IT Phosphates, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(peptides of receptor for, as sensor moieties in green fluorescent
proteins; GFP analog fusion products showing FRET quenching and contg.
ligand-binding sensor peptides for use as reporter moieties)

IT Antibodies
Caldesmon
Calmodulins
Cytokine receptors
GAP-43 (protein)
Growth factor receptors
Hormone receptors
Inositol 1,4,5-trisphosphate receptors
Ion channel
Neurotransmitter receptors
Spectrins
Steroid receptors
cAMP receptors
RL: ARU (Analytical role, unclassified); BUU (Biological use,
unclassified); ANST (Analytical study); BIOL (Biological study); USES
(Uses)
(peptides of, as sensor moieties in green fluorescent proteins; GFP
analog fusion products showing FRET quenching and contg. **ligand**
-binding sensor peptides for use as reporter moieties)

IT Lipoproteins
RL: ARU (Analytical role, unclassified); BUU (Biological use,
unclassified); ANST (Analytical study); BIOL (Biological study); USES
(Uses)
(recoverins, peptides of, as sensor moieties in green fluorescent
proteins; GFP analog fusion products showing FRET quenching and contg.
ligand-binding sensor peptides for use as reporter moieties)

IT Antibodies
RL: ARU (Analytical role, unclassified); BUU (Biological use,
unclassified); ANST (Analytical study); BIOL (Biological study); USES
(Uses)
(single chain, peptides of, as sensor moieties in green fluorescent
proteins; GFP analog fusion products showing FRET quenching and contg.
ligand-binding sensor peptides for use as reporter moieties)

IT Protein motifs
(zinc finger, GFP analogs contg., for zinc detection; GFP analog fusion
products showing FRET quenching and contg. **ligand**-binding
sensor peptides for use as reporter moieties)

IT 9000-83-3
RL: ARU (Analytical role, unclassified); BUU (Biological use,
unclassified); ANST (Analytical study); BIOL (Biological study); USES
(Uses)
(calcium-dependent, peptides of, as sensor moieties in green
fluorescent proteins; GFP analog fusion products showing FRET quenching
and contg. **ligand**-binding sensor peptides for use as reporter
moieties)

IT 7440-66-6, Zinc, analysis 7440-70-2, Calcium, analysis
RL: ANT (Analyte); ANST (Analytical study)
(fluorometric detn. of; GFP analog fusion products showing FRET
quenching and contg. **ligand**-binding sensor peptides for use
as reporter moieties)

IT 308277-97-6 308277-98-7 308277-99-8 308278-00-4
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
study); USES (Uses)
(linker peptide in green fluorescent protein fusion products; GFP
analog fusion products showing FRET quenching and contg. **ligand**

-binding sensor peptides for use as reporter moieties)

IT 10102-43-9, Nitric oxide, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (peptides of receptor for, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT 1393-25-5, Secretin 9001-80-3, Phosphofructokinase 9001-88-1, Phosphorylase kinase 9007-92-5, Glucagon, analysis 9012-42-4, Adenylate cyclase 9025-75-6, Calcineurin 9025-82-5, Phosphodiesterase 37221-79-7, Vasoactive intestinal peptide 37231-28-0, Melittin 51845-53-5, Myosin light chain kinase 59392-49-3, Gastric inhibitory peptide 72093-21-1, Mastoparan 125978-95-2, Nitric oxide synthase 141436-78-4, Protein kinase C 141467-21-2, Kinase (phosphorylating), protein (calcium-calmodulin-dependent) 141588-27-4, CGMP-dependent protein kinase
 RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (peptides of, as sensor moieties in green fluorescent proteins; GFP analog fusion products showing FRET quenching and contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT 252194-38-0 252194-40-4 252194-41-5 252194-42-6 252194-45-9 252194-47-1 252194-52-8
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; green fluorescent protein analogs contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT 180033-16-3 189121-38-8 252194-29-9 252194-30-2 252194-31-3 252194-33-5 252194-35-7 252194-36-8 252194-44-8 309919-27-5 309919-28-6 309919-78-6 309919-79-7
 RL: PRP (Properties)
 (unclaimed protein sequence; green fluorescent protein analogs contg. **ligand**-binding sensor peptides for use as reporter moieties)

IT 2543-43-3 26251-06-9 60703-95-9 99268-57-2 99486-45-0 113516-56-6 120057-55-8 120844-86-2 123168-46-7 130838-28-7 137235-69-9 141258-67-5 144704-36-9 150243-58-6 150243-59-7 153177-60-7 153478-23-0 154132-94-2 154243-86-4 172960-20-2 177024-35-0 177024-36-1 243864-27-9 256504-33-3 309752-21-4 309752-22-5 309752-23-6 309752-24-7 309752-25-8 309752-26-9 309752-27-0 309752-28-1 309752-29-2 309752-30-5 309752-31-6 309752-32-7 309752-33-8
 RL: PRP (Properties)
 (unclaimed sequence; green fluorescent protein analogs contg. **ligand**-binding sensor peptides for use as reporter moieties)

L153 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:824298 HCAPLUS

DN 134:2334

TI Protein scaffold and its use to multimerize monomeric polypeptides

IN Hill, Fergal Conan; Chatellier, Jean; Fersht, Alan

PA Medical Research Council, UK

SO PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K014-245

ICS C07K014-01; C07K001-113; C07K019-00

CC 9-16 (Biochemical Methods)

Section cross-reference(s): 1, 3, 14, 15, 63

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000069907	A1	20001123	WO 2000-GB1815	20000512
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,				

LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI GB 1999-11298 19990514
 GB 1999-28788 19991203
 GB 1999-28831 19991206

AB The invention concerns a polypeptide monomer capable of oligomerization, said monomer comprising an heterologous amino acid or amino acid sequence inserted into the sequence of a subunit of an oligomerizable protein scaffold. The invention provides a polypeptide scaffold which can be used to multimerize monomeric polypeptide or protein domains, to produce multimeric proteins having any desired **characteristic**. In particular, the invention relates to oligomerizable scaffolds, methods for producing oligomeric proteins comprising such scaffolds.

ST protein scaffold crosslink polypeptide amino acid sequence

IT Peptides, biological studies
Proteins, specific or class
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study)
 (DNA-binding; protein scaffold and use to multimerize monomeric polypeptides)

IT **Chaperonins**
 RL: RCT (Reactant)
 (Gp31; protein scaffold and use to multimerize monomeric polypeptides)

IT **Chaperonins**
 RL: RCT (Reactant)
 (GroEL; protein scaffold and use to multimerize monomeric polypeptides)

IT **Chaperonins**
 RL: RCT (Reactant)
 (GroES; protein scaffold and use to multimerize monomeric polypeptides)

IT Nervous system
 (Huntington's chorea; protein scaffold and use to multimerize monomeric polypeptides)

IT Enzymes, biological studies
 RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process)
 (and inhibitor; protein scaffold and use to multimerize monomeric polypeptides)

IT Peptides, biological studies
Proteins, specific or class
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study)
 (cellular uptake; protein scaffold and use to multimerize monomeric polypeptides)

IT Crosslinking
 (covalent; protein scaffold and use to multimerize monomeric polypeptides)

IT **Proteins**, specific or class
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (crosslinked; protein scaffold and use to multimerize monomeric polypeptides)

IT Gene
 Genetic vectors
 (expression; protein scaffold and use to multimerize monomeric polypeptides)

IT Immunoglobulins
 RL: RCT (Reactant)
 (fragments, natural or camelized VH domain or VHCDR3; protein scaffold and use to multimerize monomeric polypeptides)

IT Ring
 (heptameric; protein scaffold and use to multimerize monomeric polypeptides)

IT Oligomers

RL: RCT (Reactant)
 (homooligomer and heterooligomer; protein scaffold and use to multimerize monomeric polypeptides)

IT Conformation
 (loop, protein; protein scaffold and use to multimerize monomeric polypeptides)

IT Peptides, reactions
 RL: RCT (Reactant)
 (monomeric; protein scaffold and use to multimerize monomeric polypeptides)

IT Antigens
 RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (neutralization; protein scaffold and use to multimerize monomeric polypeptides)

IT Peptides, biological studies
Proteins, specific or class
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study)
 (nuclear localization; protein scaffold and use to multimerize monomeric polypeptides)

IT Polymerization
 (oligomerization; protein scaffold and use to multimerize monomeric polypeptides)

IT Antibiotics
 Bacteria (Eubacteria)
 Bacteriophage
 Coliphage T4
 Escherichia coli
Protein sequences
 Ring
 Vaccines
 (protein scaffold and use to multimerize monomeric polypeptides)

IT Antigens
 RL: ANT (Analyte); BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); ANST (Analytical study); BIOL (Biological study); PROC (Process)
 (protein scaffold and use to multimerize monomeric polypeptides)

IT Antibodies
 RL: ANT (Analyte); BPR (Biological process); RCT (Reactant); ANST (Analytical study); BIOL (Biological study); PROC (Process)
 (protein scaffold and use to multimerize monomeric polypeptides)

IT Amino acids, biological studies
 Hormones, animal, biological studies
 Signal peptides
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study)
 (protein scaffold and use to multimerize monomeric polypeptides)

IT **Ligands**
 Monomers
 Receptors
 RL: RCT (Reactant)
 (protein scaffold and use to multimerize monomeric polypeptides)

IT **Proteins**, general, preparation
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (scaffold; protein scaffold and use to multimerize monomeric polypeptides)

IT Nucleic acids
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
 (sequences; protein scaffold and use to multimerize monomeric polypeptides)

IT **Proteins**, specific or class
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study)
 (signaling; protein scaffold and use to multimerize monomeric polypeptides)

IT Peptides, biological studies
Proteins, specific or class
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study)
 (solid surface binding; protein scaffold and use to multimerize monomeric polypeptides)

IT 9025-75-6, Protein phosphatase 9026-43-1, Protein kinase
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (substrate; protein scaffold and use to multimerize monomeric polypeptides)

IT 308151-86-2 308151-88-4 308151-89-5 308151-90-8 308151-91-9
 308151-93-1 308151-94-2 308151-95-3 308151-96-4 308151-97-5
 308151-98-6 308151-99-7 308390-12-7 308390-13-8
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; protein scaffold and its use to multimerize monomeric polypeptides)

RE.CNT 10

RE
 (1) Ariad Gene Therapeutics Inc; WO 9910510 A 1999 HCAPLUS
 (2) Biogen Inc; WO 9111461 A 1991 HCAPLUS
 (3) Chatellier, J; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES 1998, V95(17), P9861 HCAPLUS
 (4) Ciba Geigy Ag; WO 9818943 A 1998 HCAPLUS
 (5) Fouchaq, B; EUROPEAN JOURNAL OF BIOCHEMISTRY 1999, V259(1-2), P379 MEDLINE
 (6) Medical Res Council; WO 9531540 A 1995 HCAPLUS
 (7) Morphosys Proteinoptimierung; WO 9613583 A 1996 HCAPLUS
 (8) Morphosys Proteinoptimierung; WO 9637621 A 1996 HCAPLUS
 (9) Tonghua Gantech Biotechnology; WO 9950302 A 1999 HCAPLUS
 (10) Weber, F; NATURE STRUCTURAL BIOLOGY 1998, V5(11), P977 HCAPLUS

L153 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:772662 HCAPLUS

DN 133:344596

TI A **ligand** of the protein "beacon"

IN Collier, Greg; Walder, Ken; Zimmet, Paul

PA Autogen Pty Ltd, Australia

SO PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K014-435

ICS C07K014-475; C07K014-705; A61K038-18; A61K038-17; A61P003-04;
 A61P005-04; C12N015-12; C12Q001-68

CC 1-1 (Pharmacology)

Section cross-reference(s): 9, 63

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000064931	A1	20001102	WO 2000-AU342	20000419
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI AU 1999-9919 19990423

AU 2000-6454 20000324

AB The present invention relates generally to a **ligand** for a protein assocd. with modulating obesity, diabetes and metabolic energy levels in animals and humans and to genetic sequences encoding the **ligand**. More particularly, the present invention is directed to a **ligand** of the protein "beacon" and its homologues. The identification of the **ligand** mol. permits the development of a

range of therapeutic and diagnostic protocols for obesity, diabetes and energy imbalance.

ST beacon protein **ligand** obesity diabetes screening sequence

IT Protein motifs
(DNA-binding domains; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Diagnosis
(agents; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Antiobesity agents
Drug screening
Molecular cloning
Nucleic acid hybridization
Obesity
Protein sequences
cDNA sequences
(beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT **Heat-shock proteins**
Ligands
RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Proteins, specific or class
RL: BPR (Biological process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(beacon; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Drug delivery systems
(carriers; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Proteins, specific or class
RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(cdc; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Yeast
(cloning in; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Brain
(hypothalamus, proteins of; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT Gene, animal
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(ob, expression of; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT 169494-85-3, Leptin
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT 9031-44-1, Kinase
RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(cdc-like; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT 223914-98-5, DNA (human gene beacon cDNA) 304486-98-4 304486-99-5 304487-00-1
RL: BOC (Biological occurrence); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)
(nucleotide sequence; beacon protein **ligand** in relation to diagnosis and therapy of obesity and diabetes)

IT 223914-96-3 304488-17-3, 3: PN: WO0064931 SEQID: 3 unclaimed DNA 304488-18-4
RL: PRP (Properties)

(unclaimed nucleotide sequence; **ligand** of the protein
"beacon")

IT 223914-97-4, Protein (Psammomys obesus gene beacon)

RL: PRP (Properties)

(unclaimed protein sequence; **ligand** of the protein "beacon")

IT 134547-06-1 200386-43-2 304488-19-5 304655-24-1 304710-28-9

RL: PRP (Properties)

(unclaimed sequence; **ligand** of the protein "beacon")

RE.CNT 9

RE

- (1) Campfield, L; Hormone And Metabolic Research, "The OB protein " 1996, V28(12), P619 HCAPLUS
- (2) Duncan, P; The Journal of Biological Chemistry 1995, V270(37), P21524 HCAPLUS
- (3) Frankish, H; Peptides 1995, V16(4), P757 HCAPLUS
- (4) Hanes, J; Journal of Molecular Biology 1994, V244, P665 HCAPLUS
- (5) Howell, B; American Society For Microbiology 1991, V11(1), P568 HCAPLUS
- (6) International Diabetes Institute And Deakin University; WO 9923217 A 1999 HCAPLUS
- (7) Kesterson, R; Molecular Endocrinology, "Induction of neuropeptide " 1997, V11(5), P630 HCAPLUS
- (8) Nayler, O; The Biochemical Journal 1997, V326(pt 3), P693
- (9) Scacchi, M; International Journal of Obesity 1999, V23(3), P260 HCAPLUS

L153 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:756973 HCAPLUS

DN 133:319275

TI Proteome mining with immobilized combinatorial library

IN Haystead, Timothy A. J.

PA University of Virginia Patent Foundation, USA

SO PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM G01N033-53

ICS G01N033-566; G01N033-543; C12Q001-00; A61K038-00

CC 9-2 (Biochemical Methods)

Section cross-reference(s): 1, 6, 7

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000063694	A1	20001026	WO 2000-US9714	20000412
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 1999-129417 19990415

US 1999-132595 19990505

AB The present invention relates to a method and app. for screening diverse arrays of materials for bioactive compds. In particular, techniques for rapidly **characterizing** compds. in arrays of materials in order to discover and/or optimize new materials with specific desired properties are provided. The figure represents one of the embodiments of the current invention method for isolating bioactive compds. from a complex mixt. of proteins using an immobilized combinatorial library. Adenine nucleotide-binding proteins were isolated by passing rabbit skeletal muscle or other tissue exts. over .gamma.-phosphate-linked ATP-Sepharose, washing to remove nonspecifically assocd. proteins and then elution of specific proteins by sequential washes with NADH, AMP, ADP, and ATP. Eluted proteins were identified by SDS-PAGE anal. and mixed peptide sequencing.

ST proteome mining immobilized combinatorial library; protein screening bioactive compd; adenine nucleotide binding protein screening immobilized ATP

IT **Heat-shock proteins**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(5; proteome mining with immobilized combinatorial library)

IT **Heat-shock proteins**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(HSP 60; proteome mining with immobilized combinatorial library)

IT **Heat-shock proteins**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(HSP 70; proteome mining with immobilized combinatorial library)

IT **Heat-shock proteins**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(HSP 90; proteome mining with immobilized combinatorial library)

IT Enzymes, biological studies
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(RNA-unwinding, helicases; proteome mining with immobilized combinatorial library)

IT **Proteins, specific or class**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(adenine nucleotide-binding, isolation and **characterization** of; proteome mining with immobilized combinatorial library)

IT Polymers, biological studies
RL: ARG (Analytical reagent use); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
(beads, with immobilized compds.; proteome mining with immobilized combinatorial library)

IT Denaturants
(chaotropic; proteome mining with immobilized combinatorial library)

IT Flavoproteins
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(electron-transporting flavoproteins, P6, .alpha.-subunit; proteome mining with immobilized combinatorial library)

IT **Ligands**
RL: ARG (Analytical reagent use); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
(immobilized; proteome mining with immobilized combinatorial library)

IT **Proteins, specific or class**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
(lupus nephritis LN1; proteome mining with immobilized combinatorial library)

IT Kidney, disease
(lupus nephritis, protein LN1 of; proteome mining with immobilized combinatorial library)

IT Bladder
Brain
Kidney
Liver
Muscle
(protein screening from tissue exts. of rabbit; proteome mining with immobilized combinatorial library)

IT Apparatus
Buffers
Combinatorial library

Drug screening
 Drugs
 Immobilization, biochemical
 Microtiter plates
 (proteome mining with immobilized combinatorial library)

IT **Proteins**, general, biological studies
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BIOL (Biological study); PROC (Process)
 (proteome mining with immobilized combinatorial library)

IT pp60c-src **protein**
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (proteome mining with immobilized combinatorial library)

IT Particles
 (with immobilized combinatorial library; proteome mining with immobilized combinatorial library)

IT Tubulins
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (.beta.-; proteome mining with immobilized combinatorial library)

IT 52660-18-1
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (1 and 11; proteome mining with immobilized combinatorial library)

IT 141467-21-2
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (II; proteome mining with immobilized combinatorial library)

IT 30562-34-6, Geldanamycin 30562-34-6D, Geldanamycin, analogs
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (in screening for selective inhibitors for purine-binding proteins; proteome mining with immobilized combinatorial library)

IT 9012-36-6D, Sepharose, ATP .gamma.-phosphate-linked
 RL: ARG (Analytical reagent use); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
 (proteins of rabbit tissue exts. binding to; proteome mining with immobilized combinatorial library)

IT 9001-40-5, Glucose-6-phosphate dehydrogenase 9001-50-7 9001-52-9, Fructose-1-6-bisphosphatase 9001-58-5, Isocitrate dehydrogenase 9001-60-9, Lactate dehydrogenase 9001-64-3, Malate dehydrogenase 9001-80-3, Phosphofructokinase 9001-88-1, Phosphorylase kinase 9023-58-9, Arginosuccinate synthetase 9023-70-5, Glutamate ammonia ligase 9026-42-0, Pyridoxal kinase 9027-72-9, Adenosine kinase 9027-98-9, Arginine Deiminase 9028-40-4, 3-Hydroxyacyl-CoA dehydrogenase 9028-86-8, Aldehyde dehydrogenase 9029-12-3, Glutamate dehydrogenase 9031-72-5, Alcohol dehydrogenase 9032-04-6, AIR carboxylase 9035-74-9, Phosphorylase 9073-95-4, 6-Phosphogluconate dehydrogenase 51845-53-5 90698-26-3 104645-76-3, Phosphatidylinositol-4-phosphate 5-kinase 137632-06-5, Protein tyrosine kinase CSK 141588-27-4, Protein kinase G 142008-29-5, Protein kinase A 142243-02-5, MAP kinase 142805-58-1 159202-89-8, Gene ipl1 protein kinase 172306-53-5, Lim-kinase 1 172522-01-9, AMP activated protein kinase 189398-79-6, Gene DUN1 protein kinase 215857-90-2, Gene PKX1 protein kinase 220983-94-8, Sorbitol dehydrogenase
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (proteome mining with immobilized combinatorial library)

IT 303082-57-7 303082-58-8 303082-59-9 303082-60-2
 RL: PRP (Properties)
 (unclaimed sequence; proteome mining with immobilized combinatorial library)

IT 141436-78-4
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)
 (.beta.II and .epsilon.; proteome mining with immobilized combinatorial library)

library)

IT 56-65-5, ATP, biological studies 58-68-4, NADH 61-19-8, AMP, biological studies
 RL: BPR (Biological process); NUU (Nonbiological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
 (.gamma.-phosphate-linked ATP-Sepharose-bound proteins of tissue exts. washing and elution with; proteome mining with immobilized combinatorial library)

IT 58-64-0, ADP, biological studies
 RL: BPR (Biological process); NUU (Nonbiological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)
 (.gamma.-phosphate-linked ATP-Sepharose-bound proteins of tissue exts. washing with; proteome mining with immobilized combinatorial library)

RE.CNT 3
 RE
 (1) Blum; PNAS 2000, V97(5), P2241 HCAPLUS
 (2) Damer; The Journal of Biological Chemistry 1998, V273(38), P24396 HCAPLUS
 (3) Handfiled; FEMS Microbiology Reviews 1999, V23(1), P69

L153 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2001 ACS
 AN 2000:278090 HCAPLUS
 DN 132:305484
 TI Altering the properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous molecules
 IN Logtenberg, Ton; De Kruif, Cornelis Adriaan
 PA U-Bisys B.V., Neth.
 SO PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C12N005-06
 ICS C12N005-08; C12N007-00; C12N015-70; C12P021-00; C07K014-00; C07K016-00; C12N015-62; C07K019-00; A61K035-12
 CC 9-16 (Biochemical Methods)
 Section cross-reference(s): 3, 6, 15

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000023570	A1	20000427	WO 1999-NL644	19991018
	W: CA, JP, NZ				
	EP 1001017	A1	20000517	EP 1999-203435	19991018
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	EP 1998-203482		19981016		

AB In one aspect the invention is concerned with the means and methods for providing a cell and/or a particle comprising a membrane derived from said cell with an addnl. proteinaceous mol., said process comprising contacting said cell and/or said particle with a lipid-modified proteinaceous mol., wherein said lipid-modified proteinaceous mol. comprises at least one protein moiety derived from a first protein and at least one lipidation signal derived from a second protein. In a preferred embodiment said lipid-modified proteinaceous mol. comprises a part of a mol. derived from the immune system. The invention further provides means and methods for the prodn. of lipid-modified proteinaceous mols. Also provided are uses of a lipid-modified mol. for providing a cell and/or a particle comprising a membrane derived from said cell with a novel property. Lipid-tagged single chain antibody fragment to CD14 (anti-CD14 LT-scFv) was prepd. by cloning methods and incorporated into Jurkat cell membranes.

ST lipid modified protein cell membrane incorporation; antibody fragment lipid tagged cell membrane incorporation; particle membrane lipid modified protein incorporation

IT Animal cell line
 (Daudi; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Immunoglobulins
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)

- (G, paraproteins, lipid-tagged single chain antibody fragment specific for; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Immunoglobulin receptors
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(IgG type I, protein part derived from single chain antibody fragment to; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Immunoglobulin receptors
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(IgG type II, protein part derived from single chain antibody fragment to; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Animal cell line
(JURKAT; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Cell
Escherichia coli
Eukaryote (Eukaryotae)
Genetic vectors
Membranes, nonbiological
Molecular cloning
Particles
(altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Fusion proteins (chimeric proteins)
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Virus
(as particle; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Drugs
(cell or particle for use as; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Gene
Gene, animal
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(for protein; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Immunoglobulins
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(fragments, antigen-binding, protein part derived from; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Signal peptides
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(in fusion proteins with single chain antibody fragments; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Proteins, specific or class
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(lipid-modified; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous

- mols.)
- IT Kidney, neoplasm
(lipid-tagged single chain antibody fragment incorporation in membrane of cells of, of human; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Mononuclear cell (leukocyte)
(lipid-tagged single chain antibody fragment incorporation in membrane of, of human blood; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Interleukin 2
RL: BPN (Biosynthetic preparation); BPR (Biological process); BIOL (Biological study); PREP (Preparation); PROC (Process)
(lipid-tagged; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Lipoproteins
RL: PRP (Properties)
(lipidation signal of; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Signal transduction, biological
(lipidation signal; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Leukemia
(lymphocytic, lipid-tagged single chain antibody fragment incorporation in membrane of cells of, of human blood; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Phagocytosis
(of anti-CD14 lipid-tagged antibody fragment-contg. Jurkat cells; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Globulins, biological studies
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(paraproteins, IgG, lipid-tagged single chain antibody fragment specific for; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Glycolipoproteins
RL: PRP (Properties)
(phosphatidylinositol-contg., lipidation signal of; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Lipids, biological studies
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(protein modified with; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Immune system
(protein of; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Erythrocyte
(protein part derived from single chain antibody fragment to, of sheep; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT CD14 (antigen)
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(protein part derived from single chain antibody fragment to; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

- IT Cell adhesion molecules
Heat-shock proteins
Homing receptors
Ligands
Receptors
Transport proteins
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(protein part derived from; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Purification
(protein part having tag for detection and; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Cell membrane
(protein part interacting with signal-transducing mol. in; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Proteins, specific or class
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(signaling, protein part derived from; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT Antibodies
RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(single chain, protein part derived from; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT 51-28-5, Dinitrophenol, biological studies
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(lipid-tagged single chain antibody fragment specific for; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)
- IT 264912-84-7
RL: PRP (Properties)
(unclaimed protein sequence; altering the properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

RE.CNT 4

RE

- (1) de Kruif, J; FEBS LETTERS 1996, V399, P232 MEDLINE
- (2) McHugh, R; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA 1995, V92, P8059 HCAPLUS
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- (4) Tykocinski, M; WO 9612009 A 1996 HCAPLUS

L153 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:262779 HCAPLUS

DN 133:131352

TI Mass spectrometric identification of proteins released from mitochondria undergoing permeability transition

AU Patterson, S. D.; Spahr, C. S.; Daugas, E.; Susin, S. A.; Irinopoulou, T.; Koehler, C.; Kroemer, G.

CS Mammalian Genomics, Amgen Center, Amgen Inc., Thousand Oaks, CA, 91320, USA

SO Cell Death Differ. (2000), 7(2), 137-144

CODEN: CDDIEK; ISSN: 1350-9047

PB Nature Publishing Group

DT Journal

LA English

CC 6-3 (General Biochemistry)

AB Mitochondrial membrane permeabilization is a rate-limiting step of cell death. This process is, at least in part, mediated by opening of the permeability transition pore complex (PTPC). Several sol. proteins from the mitochondrial intermembrane space and matrix are involved in the activation of catabolic hydrolases including caspases and nucleases. The authors therefore investigated the compn. of a mixt. of proteins released from purified mitochondria upon PTPC opening. This mixt. was subjected to a novel proteomics/mass spectrometric approach designed to identify a max. of peptides. Peptides from a total of 79 known proteins or genes were identified. In addn., 21 matches with expressed sequence tags (EST) were obtained. Among the known proteins, several may have indirect or direct pro-apoptotic properties. Thus, endozepine, a **ligand** of the peripheral benzodiazepin **receptor** (whose occupation may facilitate mitochondrial membrane permeabilization), was found among the released proteins. Several proteins involved in protein import were also released, namely the so-called X-linked deafness dystonia protein (DDP) and **glucose-regulated protein 75** (GRP75), meaning that protein import may become irreversibly disrupted in mitochondria of apoptotic cells. In addn., a no. of catabolic enzymes were detected: arginase 1 (which degrades arginine), sulfite oxidase (which degrades S-contg. amino acids), and epoxide hydrolase. Although the functional impact of each of these proteins on apoptosis remains elusive, the present data bank of mitochondrial proteins released upon PTPC opening should help further elucidation of the death process.

ST protein release mitochondria permeability transition apoptosis; database protein mitochondria permeability transition apoptosis; mass spectrometry protein mitochondria permeability transition

IT Proteins, specific or class

RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)

(GRP75 (**glucose-regulated protein**, 75,000-mol.-wt.); mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis)

IT **Databases**

(database of proteins released from mitochondria undergoing permeability transition)

IT Neurohormones

RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)

(endozepines; mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis)

IT Apoptosis

Mitochondria

(mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis)

IT Proteins, general, biological studies

RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)

(mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis)

IT Biological transport

(permeation; mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis)

IT 9000-96-8, Arginase

RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)

(1; mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis)

IT 9026-81-7, Nuclease 9027-41-2, Hydrolase 9029-38-3, Sulfite oxidase

9048-63-9, Epoxide hydrolase 9054-89-1, Superoxide dismutase
182637-30-5, X-Linked deafness dystonia protein (human gene DDP1)
186322-81-6, Caspase
RL: BOC (Biological occurrence); BPR (Biological process); BIOL
(Biological study); OCCU (Occurrence); PROC (Process)
(mass spectrometric identification of proteins released from
mitochondria undergoing permeability transition and their relation to
apoptosis)

RE.CNT 43

- RE
- (1) Ashmarina, L; J Lipid Res 1999, V40, P70 HCAPLUS
 - (2) Brenner, C; To be published in Oncogene 1999
 - (3) Carthy, C; Lab Invest 1999, V79, P953 HCAPLUS
 - (4) Courchesne, P; Electrophoresis 1997, V18, P369 HCAPLUS
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 - (36) Susin, S; to be published in Methods Enzymol 1999
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L153 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 2000:145067 HCAPLUS

DN 132:206569

TI Expression monitoring for human cytomegalovirus (HCMV) infection, and
genes possibly involved in mediating the pathology of HCMV infection

IN Zhu, Hua; Gingeras, Thomas; Shenk, Thomas

PA Affymetrix, Inc., USA

SO PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C12Q001-68
 ICS C12Q001-70; A61B005-00; G01N035-00
 CC 14-3 (Mammalian Pathological Biochemistry)
 Section cross-reference(s): 1, 13
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011218	A1	20000302	WO 1999-US18772	19990820
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9956776	A1	20000314	AU 1999-56776	19990820
PRAI	US 1998-97708		19980821		
	WO 1999-US18772		19990820		
AB	The invention provides methods, compns., and app. for studying the complex regulatory relationships among host genes and viruses, in particular HCMV. The invention also provides cellular mRNAs whose levels change by a factor of four or more after infection with HCMV. Such genes are likely those involved in mediating the pathol. of the infected tissues. Thus by identifying agents which are able to reverse the induction or repression of such genes, one can find candidate therapeutic agents for use in treating and or preventing HCMV-caused disease pathologies.				
ST	human cytomegalovirus infection gene expression; therapy drug screening HCMV infection				
IT	Thrombospondins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (1, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)				
IT	Cadherins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (11, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)				
IT	Thrombospondins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (2, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)				
IT	Bone morphogenetic proteins				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (2B, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)				
IT	Proteins, specific or class				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (A20, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)				
IT	Gene, animal				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (AFlq; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)				
IT	Lipoprotein receptors				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (ARP-1 (apolipoprotein A-I regulatory protein), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)				
IT	Glycophosphoproteins				

- RL: BSU (Biological study, unclassified); BIOL (Biological study)
(B23, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(BCL7B; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(CDC25; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(COX-2, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(CYP2C; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(DNA-binding, AP-2, genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Apolipoproteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(E, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT **Proteins, specific or class**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**E2 (ubiquitin-carrier) protein** degrdn. factor, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GBP (guanylate-binding protein), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GTP-binding, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT **Chaperonins**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GroES, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Histones
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(H2A, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(HLA-E, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal

- RL: BSU (Biological study, unclassified); BIOL (Biological study)
(HOX7; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Annexins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(I, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(IRF (iron regulatory factor), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(IRF-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Transcription factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(IRF-2 (interferon regulatory factor 2), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Transcription factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(ISGF-2 (interferon-stimulated gene factor 2), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Transcription factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Id2 (inhibitor of differentiation 2), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(KIAA0107; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Lipoprotein **receptors**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(LDL, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(MAD-3; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(MxA, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Transcription factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(NF-IL6 (nuclear factor interleukin 6), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Transcription factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(NF-.kappa.B (nuclear factor .kappa.B), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)

- (RB1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Ribonucleoproteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(RNA U2-contg., genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Ro/SSA, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Peptide **receptors**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(SSR (signal peptide sequence **receptor**), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Steroid **receptors**
Thyroid hormone **receptors**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TR3 (thyroid/steroid hormone **receptor** 3), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Initiation factors (protein formation)
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Tif (translation initiation factor), genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(XE169; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Lung
(anal. of gene expression in cells of; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Epithelium
Fibroblast
Lymphocyte
Neuron
(anal. of gene expression in; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(arginine-contg., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(autoantigens, Sp100, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(cPLA2, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Proteoglycans, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(chondroitin sulfate-contg., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(dystrophin-assocd., 35,000-mol.-wt., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding AML1e protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding CSaids binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding ERCC5 excision repair protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding HLA-DR assoc. protein 1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding MITF; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding MN1 protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding TFPI-2; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding TIMP3; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding acid finger protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding blood-coagulation factor VII; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding corticotropin-releasing factor binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding decay-accelerating factor; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding extracellular protein Si-5; expression monitoring for human

cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding integral membrane protein E16; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding lipoprotein-assocd. coagulation inhibitor; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding lissencephaly protein LIS1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding mitF; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding p53-binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding platelet-endothelial tetraspan antigen 3; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding polyA-binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding pre-B cell enhancing factor; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein 6-16; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein 9-27; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein MxB; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein PML-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding smooth muscle protein SM22; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in

- mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(encoding ubiquitin-like protein GdX; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(encoding .beta.-migrating plasminogen activator inhibitor 1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Human herpesvirus 5
(expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Oligonucleotides
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT cDNA
mRNA
RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT EST (expressed sequence tag)
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene
(expression; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Glycoproteins, specific or class
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(fibulins, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Drug screening
(for agents against HCMV infection; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(gas-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Activin **receptors**
Androgen **receptors**
Aromatic hydrocarbon **receptors**
Calponin
Cyclins
Endoglins
Enkephalins
Ferritins
Filamin
G protein-coupled **receptors**
Glucocorticoid **receptors**
Insulin-like growth factor I **receptors**
Integrins
Interleukin 11
Interleukin 6
Interleukin 7
Myosins
RANTES (chemokine)
Tropomyosins
Troponins

Tumor necrosis factor **receptors**

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT G proteins (guanine nucleotide-binding proteins)

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(gene rab, 13, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Collagens, biological studies

Growth factor **receptors****Heat-shock proteins**

Insulin-like growth factor-binding proteins

Interferons

Laminins

Orphan **receptors**

Splicing factors

Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Insulin-like growth factor **receptors**

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(glycoprotein IGF-BP-3 (insulin-like growth factor binding protein 3), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**ligand**-binding, genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Annexins

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lipocortins, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleotide-binding, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Diagnosis

(of HCMV infection; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(p27; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(pentraxins, II, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(pim-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(staf50; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

- infection)
- IT **Computer program**
(use in anal. of gene expression; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Nucleic acid hybridization
(use in mRNA anal.; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Infection
(viral; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Platelet-derived growth factor **receptors**
RL: BSU (Biological study, unclassified); BIOL (Biological study) (.alpha., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Actins
Tubulins
RL: BSU (Biological study, unclassified); BIOL (Biological study) (.alpha.-, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Interferons
RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Tubulins
RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta.-, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Transforming growth factor **receptors**
RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta.-transforming growth factor type V, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Transforming growth factor **receptors**
RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta.-transforming growth factor, type III, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT Actins
RL: BSU (Biological study, unclassified); BIOL (Biological study) (.gamma.-actins, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT 39391-18-9
RL: BSU (Biological study, unclassified); BIOL (Biological study) (2, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT 80449-02-1, Tyrosine kinase
RL: BSU (Biological study, unclassified); BIOL (Biological study) (Hyl, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)
- IT 9000-83-3, Atpase 9001-12-1, Collagenase 9001-40-5, Glucose-6-phosphate dehydrogenase 9001-58-5, Isocitrate dehydrogenase
9001-84-7, Phospholipase a2 9014-51-1, Indoleamine 2,3-dioxygenase
9015-81-0 9023-44-3, Tryptophanyl-tRNA synthetase 9026-30-6, Oligoadenylate synthetase 9028-86-8, Aldehyde dehydrogenase 9029-17-8, Pyrroline 5-carboxylate reductase 9029-80-5, Histamine
N-methyltransferase 9030-21-1, Purine nucleoside phosphorylase

9031-71-4, Alanyl tRNA synthetase 9031-72-5, Alcohol dehydrogenase
 9031-94-1, Aminopeptidase 9035-51-2, Cytochrome p450, biological studies
 9059-25-0, Lysyl oxidase 11096-26-7, Erythropoietin 37289-19-3, GTP
 cyclohydrolase I 65802-86-0, Prostacyclin synthase 79747-53-8, Protein
 tyrosine phosphatase 80295-65-4, Complement factor H 81181-72-8,
 .gamma.-Glutamyl carboxylase 98037-52-6, Abl protein (tyrosine) kinase
 117628-82-7, Follistatin 140699-00-9, Pro-galanin **140879-24-9**,
Proteasome 141436-78-4, Protein kinase c 154835-90-2,
 Adrenomedullin 176591-29-0, Rip protein kinase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (gene encoding; expression monitoring for human cytomegalovirus (HCMV)
 infection, and genes possibly involved in mediating the pathol. of HCMV
 infection)

IT 260242-78-2, 1: PN: WO0011218 PAGE: 38 unclaimed DNA

RL: PRP (Properties)
 (unclaimed nucleotide sequence; expression monitoring for human
 cytomegalovirus (HCMV) infection, and genes possibly involved in
 mediating the pathol. of HCMV infection)

IT 9014-08-8, Enolase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (.gamma.-2, gene encoding; expression monitoring for human
 cytomegalovirus (HCMV) infection, and genes possibly involved in
 mediating the pathol. of HCMV infection)

RE.CNT 12

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AN 1999:795994 HCAPLUS

DN 132:31744

TI Gene probes used for genetic **profiling** in healthcare screening
 and planning

IN Roberts, Gareth Wyn

PA Genostic Pharma Ltd., UK

SO PCT Int. Appl., 745 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C12Q001-68

ICS C07K016-18

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 9, 13, 14

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964627	A2	19991216	WO 1999-GB1780	19990604
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,				

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI GB 1998-12099 19980606
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AB There is considerable evidence that significant factor underlying the individual variability in response to disease, therapy and prognosis lies in a person's genetic make-up. There have been numerous examples relating that polymorphisms within a given gene can alter the functionality of the protein encoded by that gene thus leading to a variable physiol. response. In order to bring about the integration of genomics into medical practice and enable design and building of a technol. platform which will enable the everyday practice of mol. medicine a way must be invented for the DNA sequence data to be aligned with the identification of genes central to the induction, development, progression and outcome of disease or physiol. states of interest. According to the invention, the no. of genes and their configurations (mutations and polymorphisms) needed to be identified in order to provide crit. clin. information concerning individual prognosis is considerably less than the 100,000 thought to comprise the human genome. The identification of the identity of the core group of genes enables the invention of a design for genetic **profiling** technologies which comprises of the identification of the core group of genes and their sequence variants required to provide a broad base of clin. prognostic information - "genostics". The "Genostic.RTM." **profiling** of patients and persons will radically enhance the ability of clinicians, healthcare professionals and other parties to plan and manage healthcare provision and the targeting of appropriate healthcare resources to those deemed most in need. The use of this invention could also lead to a host of new applications for such **profiling** technologies, such as identification of persons with particular work or environment related risk, selection of applicants for employment, training or specific opportunities or for the enhancing of the planning and organization of health services, education services and social services.

ST probe genetic **profiling** healthcare screening

IT Ankyrins

Calmodulins

Notch (receptor)

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(1 and 2 and 3, core **group** of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Angiotensin receptors

Fibrillins

Neurofibromin

Presenilins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(1 and 2, core group of **disease**-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Inositol** 1,4,5-trisphosphate receptors

P-glycoproteins**Uncoupling protein**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(1 and 3, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Chloride channel**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(1 and 5 and KB, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Calbindins****Keratins****Laminin receptors****Synaptobrevins****Syntaxins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(1, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Keratins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(10, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Keratins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(11 and 2 and 3 and 9, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Interleukin receptors**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(12, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Keratins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(13, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Keratins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(14, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Myosins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(15 and 5A and 6 and 7A and cardiac, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Keratins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(15, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT **Keratins**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(16, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Keratins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (17, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (17-1A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Keratins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (18, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Melatonin receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1A and 1B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Tropomyosins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1.alpha. and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and **planning**)

IT **Calculi, renal**
 (2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Bone morphogenetic proteins**
Synaptobrevins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Bone morphogenetic proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (2B, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and **planning**)

IT **Cyclin dependent kinase inhibitors**
 (3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Transcription factors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Keratins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT **Keratins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and **planning**)

IT **Laminins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
(5, .alpha.3 and .beta.3 and .gamma.2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1B, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1C, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1E, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1F, core group of disease-related genes; gene probes used for **genetic** **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT2A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT2B, core group of disease-related genes; gene probes used for **genetic** **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT2C, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT3, core group of disease-related genes; gene probes used for **genetic** **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT5, core group of disease-related genes; gene probes used for **genetic** **profiling** in healthcare screening and planning)

IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (5-HT6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and **planning**)

IT 5-HT receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (5-HT7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Bone morphogenetic **proteins**
 Keratins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and **planning**)

IT Bone morphogenetic **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Bone morphogenetic **proteins**
 Keratins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (8, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Apolipoproteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A, A4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Chromogranins**
Cyclins
 Glycophorins
 Immunoglobulins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Apolipoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A-I, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT Apolipoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A-II, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Heat-shock proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A1 and A2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ABC (ATP-binding cassette-contg.), 7, core group of disease-related genes; **gene** probes used for genetic **profiling** in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (ABP (androgen-binding protein), core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT **Transport proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ADP/ATP carrier, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (AIM1, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (AP-2 (activator protein 2), core group of disease-related genes; gene probes **used** **for** genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (APC, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ATOH1, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Apaf-1, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare **screening** and planning)
- IT Adenosine receptors
 Adenosine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A1, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare **screening** and planning)
- IT Adenosine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A2, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and **planning**)
- IT Adenosine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A2b, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT Adenosine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A2a, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare **screening** and planning)
- IT Adenosine receptors
 Adenosine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A3, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare **screening** and planning)
- IT Apolipoproteins
Cyclins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (B, core group of disease-related genes; gene probes used for genetic
**profiling in healthcare screening and
 planning**)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (B-lym, core group of disease-related genes; gene probes used for
 genetic **profiling in healthcare screening and
 planning**)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (B-raf, core group of disease-related genes; gene probes used for
 genetic **profiling in healthcare screening and
 planning**)

IT **Glycophosphoproteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (B23, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (BCR, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (BRCA1, core group of disease-related genes; gene probes used for
 genetic **profiling in healthcare screening and planning**)

IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (BRCA1-assocd. RING domain gene 1, core group of disease-related genes;
 gene probes used for genetic **profiling in healthcare
 screening and planning**)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (BRCA2, core group of disease-related genes; gene probes used for
 genetic **profiling in healthcare screening and
 planning**)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (BRCD1, core group of disease-related genes; gene probes used for
 genetic **profiling in healthcare screening and
 planning**)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (BRCD2, core group of disease-related genes; gene probes used for
 genetic **profiling in healthcare screening and
 planning**)

IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (Bagpipe homeobox, core group of disease-related genes; gene probes
 used for genetic **profiling in healthcare screening
 and planning**)

IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (Bcl-x, core group of disease-related genes; gene probes used
 for genetic **profiling in healthcare screening and**

- planning)
- IT **Disease, animal**
(Beckwith-Wiedemann syndrome, gene BWR1A, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT **Bradykinin receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(B1, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare **screening** and planning)
- IT **Bradykinin receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(B2, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT **Troponins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C, core group of disease-related genes; gene **probes** used for **genetic profiling** in healthcare screening and planning)
- IT **Chemokine receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-C CKR-2 (cysteine-cysteine chemokine receptor 2), core group of disease-related genes; gene **probes** used for **genetic profiling** in healthcare screening and planning)
- IT **Chemokine receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-C CKR-3 (cysteine-cysteine chemokine receptor 3), core group of disease-related **genes**; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT **Chemokine receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-C CKR-5 (cysteine-cysteine chemokine receptor 5), core group of disease-related genes; gene **probes** used for **genetic profiling** in healthcare screening and planning)
- IT **Apolipoproteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-I, core group of disease-related genes; gene probes used for **genetic profiling** in **healthcare** screening and planning)
- IT **Apolipoproteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-II, core group of disease-related genes; gene probes used for **genetic profiling** in **healthcare** screening and planning)
- IT **Apolipoproteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-III, core group of disease-related genes; gene probes used for **genetic profiling** in **healthcare** screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-reactive, core group of disease-related genes; gene probes used for **genetic profiling** in **healthcare** screening and planning)
- IT **Complement receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C5a, core group of disease-related genes; gene probes used for **genetic profiling** in **healthcare screening** and planning)

IT **Transcription factors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CBF (core-binding factor), .alpha.1 and .alpha.2 and .beta., core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD100, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD101, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD103, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD107, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD108, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD109, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD110, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD111, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD112, core group of disease-related genes; gene probes used for genetic profiling in healthcare **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD113, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(CD114, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD115, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD116, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD117, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD118, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD119, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD12, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD120, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD121, core group of disease-related genes; gene **probes** used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD123, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD124, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD125, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
(CD126, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD127, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD128, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD129, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD130, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD131, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD132, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD133, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD134, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD135, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD136, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(CD137, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD138, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD139, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD140, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD141, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD142, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD143, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD144, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD145, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD147, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD148, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD149, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
(CD150, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD151, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD153, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD155, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD156, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD157, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD158, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD159, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD160, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD161, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD162, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD163, core group of disease-related genes; gene probes used

for genetic **profiling** in healthcare screening and planning)

IT **Antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD164, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD165, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD166, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD17, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **CD antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD24, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **CD antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD27, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **CD antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD33, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **CD antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD37, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD39, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Glycoproteins, specific or class**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD40-L (antigen CD40 **ligand**), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD41, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD42, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD47, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD48, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD52, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT CD antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD53, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT CD antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD57, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT CD antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD6, core group of disease-related genes; gene probes used for **genetic profiling** in **healthcare** screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD60, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and **planning**)

IT CD antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD63, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD65, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT CD antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD66, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD67, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** **screening** and **planning**)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (CD70, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD72, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD73, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD76, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD77, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD78, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD79, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD83, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD84, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD85, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD89, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD9, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD90, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD91, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD92, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and **planning**)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD93, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT **CD antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD94, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and **planning**)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD96, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD97, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD98, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD99, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CDX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and **planning**)
- IT **Transcription factors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CREB (cAMP-responsive element-binding), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (CREB-binding, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CRX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Colony stimulating factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CSF-3, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP11A1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP11B1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP11B2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP17, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and **planning**)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP19, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening **and** planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP1A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening **and** planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP1A2, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Gene, **animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP1B1, core group **of** disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP21, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP24, core group of disease-related genes; gene probes used for

genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP27, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP27B1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2A13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2A3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2A6V2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2A7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2B6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C18, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C19, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2D6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2E1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2F1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2J2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP4A11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP4B1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP4F2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP4F3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP51, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP5A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP7A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phagocyte
(Chediak-Higashi syndrome, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT Apolipoproteins
Cyclins
Immunoglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and **planning**)
- IT Steroid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DAX-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DCC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DLX1 through DLX6, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DMBT1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(DMC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DMPK, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DNA damage-binding DDB1 and DDB2, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT Enzymes, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DNA helicases, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DNA-binding, zinc finger-contg., 198 and 2 and 3 and HRX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DP, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DSS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Hedgehog **protein**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Desert, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Dopamine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (D1, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Dopamine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (D2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Dopamine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (D3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT Dopamine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (D4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Dopamine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (D5, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Calbindins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (D9k, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Apolipoproteins
 Cadherins
 Immunoglobulins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (E, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Selectins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (E-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EFMR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ELF-1 (Eph **ligand** family-1), core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ELK1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ELK2, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Cadherins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EPM2A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EP1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EP2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EP3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ERBAL2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening **and** planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ERCC5, core group of disease-related genes; gene probes used for genetic profiling in healthcare **screening** and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ERG, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Endothelin receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ETA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Endothelin receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ETB, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EVII, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EWS, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EYA1 and EYA2 and EYA3, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EYCL3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Cyclins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (F, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (FABP (fatty acid-binding protein), core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (FDGDY, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Transcription factors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (FKHL10 and FKHL14 and FKHL7, core group of disease-related genes; gene

- probes** used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FKHR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FRAXA and FRAXE and FRAXF, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT Anemia (disease)
(Fanconi's, complementation group A and B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Anemia (disease)
(Fanconi's, complementation group C, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Flightless II, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT Muscular dystrophy
(Fukuyama, gene FCMD, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(G/T mismatch, core group of disease-related genes; **gene** probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(G2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GABA transporter, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GADD45, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GDI (GDP disson. inhibitor), core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (GLI1, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GLI2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GLI3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT G **proteins** (guanine nucleotide-binding **proteins**)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GNAO1 and GNB3 and GNG5 and GNAQ, core **group** of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Galanin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GluR1 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GluR2 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GluR3 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GluR4 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GluR5 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GluR6 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (GluR7 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

- planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Goosecoid GSC, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Gi1 (adenylate cyclase-inhibiting, 1), core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Gi2 (adenylate cyclase-inhibiting, 2), core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Gi3 (adenylate cyclase-inhibiting, 3), core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Gs (adenylate cyclase-stimulating), GNAS1 and GNAS2 and GNAS3 and **GNAS4**, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Apolipoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histones
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H1, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histones
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H2, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histones
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H3, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histones
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H4, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HAND1 and HAND2, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Lipoprotein receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HDL, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HIF-1 (hypoxia-inducible factor 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HIF-2 (hypoxia-inducible factor 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HLA-B assocd. transcript 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HLA-DP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HLA-DQ, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HLA-DR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HLX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HLXB9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT High-mobility group **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HMG-C and HMG-Y, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT High-mobility group **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HMG1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT High-mobility group **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HMG2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HNF-3B (hepatocyte nuclear factor 3B), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (HNF-4 (hepatocyte nuclear factor 4), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOX11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA12, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXB2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXB3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXB6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXB7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXB9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXC13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXC4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXC9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXD1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXD10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXD13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXD3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXD8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXD9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Blood-coagulation factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HRG (histidine-rich glycoprotein), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Heat-shock proteins**

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSP 60, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Heat-shock proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSP 70, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Heat-shock proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSP 90, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT DNA formation factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSSB, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HTS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HVBS1 and HVBS6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Hairless, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Blood coagulation
(Hermansky-Pudlak syndrome, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxC8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxD12, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxD4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Annexins
Synaptotagmin
Troponins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(I, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(I2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ICAM-1 (intercellular adhesion mol. 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (ICAM-2 (intercellular adhesion mol. 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ICAM-3 (intercellular adhesion mol. 3), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ICCA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IGER and IGES, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Synaptotagmin
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(II, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IKBL, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IRS-1 (insulin receptor substrate 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IgE type II, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IgG type I, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IgG type IIA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Ikaros, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Hedgehog **protein**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Indian, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(J protein, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Potassium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(J1 and J11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Blood-group substances
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(K (Kell), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(K7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(KAI1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
(KIP2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Potassium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Kv1 (potassium channel-forming, voltage-regulated, 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Selectins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(L-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(L-myc, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(L1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(L13A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(L17, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LAMP-1 (lysosome-assocd. membrane protein 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LAMP-2 (lysosome-assocd. membrane protein 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Lipoprotein receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LDL, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LH-releasing hormone, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LIM homeobox proteins 1 and 2 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LIM homeobox transcription factor 1.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LIM-domain only proteins 1 and 2 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LMP-2 (latent-infection membrane protein 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LPP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LYDMA, LMP-7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Kidney, disease
(Lowe's syndrome, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Lp(a), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulins
Laminins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAD homolog 2 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MADS box transcription-enhancer factor 2A and 2B and 2C and 2D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MAX-interacting protein 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MCC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MCP (membrane cofactor protein), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MHC (major histocompatibility complex), class I, A and B and C, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MHC (major histocompatibility complex), class II, complementation group A and B and C and D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Mucins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MUC2 and MUC5AC and MUC6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(MUM1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Msh homoeobox homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Muellerian-inhibiting hormone, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Dwarfism
(Mulibrey, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Myf-3 (myogenic factor 3), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

planning)

IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Myf-4 (myogenic factor 4), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Myf-5 (myogenic factor 5), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cadherins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(N-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(N-CAM, N-CAM-2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(N-CAM, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(N-CAM-120, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(N-ras, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (NF-E1 (nuclear factor erythroid 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurofilament **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-H, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurofilament **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-L, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurofilament **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-M, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-.kappa.B (nuclear factor .kappa.B), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NFATc (nuclear factor, activated T-cell, cytosolic), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NFATp (nuclear factor, activated T-cell, pre-existing), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Tachykinin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NK1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Tachykinin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NK2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Tachykinin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NK3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NMDA-binding, type 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NMDA-binding, type 2A and 2B and 2C and 2D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Atrial natriuretic peptide receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(NPR-A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Atrial natriuretic peptide receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NPR-B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Nervous system
 (Norrie's disease, gene NDP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Notch **ligand**-jagged 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Orthodenticle homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cadherins
 Selectins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Protamines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Protamines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PABP (poly(A)-binding protein), 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PAC7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PAC8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PAX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PAX3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PAX6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cell adhesion molecules
Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PECAM-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PHEX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PMP-22 (peripheral myelin protein, 22,000-mol.-wt.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(POU box, 1 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PROX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PVR (poliovirus receptor), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Patched homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Pax2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Prophet of Pit1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(P2U, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(P2X, 1 through 7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
(P2Y, 11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(P2Y, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(R-binding, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RAG1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RAG2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoic acid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RAR-.alpha., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoic acid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RAR-.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoic acid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RAR-.gamma., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT DNA formation factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RF-A (replication factor A), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT DNA formation factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RF-C (replication factor C), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RGR (retinal G protein coupled receptor), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RIGUI, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoid X receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RXR.alpha., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoid X receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RXR.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoid X receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(RXR.gamma., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Rathke pouch homeobox, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Rb, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Blood-group substances
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Rh, CcEe antigens, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Rim, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(S-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(S-100, A1 through A9 and B and P, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Ribosomal **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(S19, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Ribosomal **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(S4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Ribosomal **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(S6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Ribosomal **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(S9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (SA homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SAA (serum amyloid A), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SAP (SLAM-assocd. protein), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SAP (serum amyloid, P), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycophosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SCP2 (hydroxy steroid-carrier protein 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Chemokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SDF-1.alpha. (stromal-derived factor-1.alpha.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Chemokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SDF-1.beta. (stromal-derived factor-1.beta.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SF-1 (steroidogenic factor 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Globulins, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SHBG (sex hormone-binding globulin), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SLAM (signaling lymphocyte activation mol.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Guanine nucleotide exchange factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOX10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SOX11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SOX3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SOX4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SOX9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SP-A, A1 and A2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SP-B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SP-C, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SP-D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SSEA-1 (stage-specific embryonic antigen 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SSTR1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SSTR2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SSTR3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SSTR4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Somatostatin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SSTR5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(SSX1 and SSX2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ST3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ST8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STAT1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STAT2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STAT3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STAT4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(STAT5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Sal-like 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Slug, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Sry (sex-detg. region of chromosome Y), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Troponins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(T, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(T-BOX2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(T-BOX3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(T-BOX4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(T-BOX5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(T-BOX6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Leukemia
(T-cell, acute, gene TAL1 and TAL2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TAPA-1 (target of antiproliferative antibody, 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TATA-binding protein-assocd., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TEL, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TKCR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TRC8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TRP-1 (tyrosinase-related protein 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(TSG101, core group of disease-related genes; gene probes used for

genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TUPLE1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Tap1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Tap2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Thy-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Tip-assocd., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Protein receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Toll-like receptor 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Twist homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Usher syndrome gene USH2A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cell adhesion molecules
 Cell adhesion molecules
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (VCAM-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Vasopressin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (V1, 1A and 1B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Vasopressin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (V2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (WHSC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (WT1 (Wilms' tumor suppressor 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Wnt inhibitory factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Disease, animal
 (Wolfram syndrome, gene WFS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (X-specific transcript, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (XPA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (XPB, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (XPC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (XPD, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (XPE, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (XPF, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (XRCC9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Neuropeptide Y receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Y1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Neuropeptide Y receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Y2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Glycoproteins, specific or class

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ZP1 (zona pellucida, 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ZP2 (zona pellucida, 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ZP3 (zona pellucida, 3), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Eye, disease
 (achromotopsia gene ACHM2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (acidic amino acid-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (acylcarnitine-carnitine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (adaptins, .beta.3A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (adducins, .alpha. and .beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Brain, disease
 (adrenoleukodystrophy, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Behavior
 (aggressive, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Amino acids, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (alkaptonuria, gene AKU, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (amino acid-transporting, gene SLC1A6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(amyloid .beta.-binding APBB1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amyloid .beta.-like, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(anion-exchanging proteins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(antigens CD11b, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(antigens CD11c, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(antigens Mac-1 (macrophage 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(apical, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(apoptosis-regulating, **ligand 1** and apoptosis-inducing factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(apoptosis-regulating, neuronal apoptosis-inhibitory, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Porins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(aquaporins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(archaete-scute homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(aryl hydrocarbon receptor nuclear-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(aspartate, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(astrotactins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Nervous system
(ataxia telangiectasia, genes ATD and ATM, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ataxins 1 and 2 and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(atrophin 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(attractins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(autoimmune regulator AIRE, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(axl, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(azoospermia factor1 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(band 4.1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phospholipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(band 4.2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phospholipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(band 7.2b, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bcl-2, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bcr-c-abl, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bestrophins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bile acid-sodium-cotransporting, 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bile salt-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Biotechnology
(biochips, design of GENOSTIC genechip device; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(blue cone pigment, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurotrophic factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(brain-derived, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-Ha-ras, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-Ki-ras2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-R-ras, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-abl1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-abl2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-akt1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-akt2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ems1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-erb, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-erb2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-erbA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ets-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ets-2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-fes, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-fgr, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (c-fos, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-fps, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-grol, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-gro2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-int1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-int3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-int4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-jun, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-kit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-lco, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-lyn, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-maf, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-mas1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-mel, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-mos, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-mpl, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-myc, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ovc, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-raf, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ralb, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-rel, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ros, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-sis, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ski, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-sno, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-spil, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-src, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-tim, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(calcium, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(calcium-sodium-exchanging, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cardiac-specific homeobox CSX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(carnitine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cartilage oligomeric matrix, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cartilage-hair hypoplasia, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(caveolins, 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cellubrevins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ceroid lipofuscinosis neuronal 2-6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- screening and planning)
- IT Cytokine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chemokine, fusin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cholecystokinin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cholecystokinin B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Biliary tract
(cholestasis, intrahepatic, gene FIC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cholesterol ester-exchanging, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chondritin sulfate A-placental, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Eye, disease
(choroideremia, gene CHM, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurotrophic factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ciliary, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Atrial natriuretic peptide receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(clearance, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cleavage signal-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Palate
(cleft, gene CPX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(clk1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cochlins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cofilins, core group of disease-related genes; gene probes used for

genetic **profiling** in healthcare screening and planning)

IT **Protein** receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (collagen, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (collapsins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (contactins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Genetic methods
 (core genes for design and manuf. of GENOSTIC genechip device; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Bone, disease
 Headache
 Hemochromatosis
 Inflammation
 Mental disorder
 Muscle, disease
 Neoplasm
 Niemann-Pick disease
 Skin, disease
 (core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT ACTH receptors
 Albumins, biological studies
 Amelogenins
 Amyloid precursor **proteins**
 Androgen receptors
 Aromatic hydrocarbon receptors
 Arrestins
 Benzodiazepine receptors
 CD1 (antigen)
 CD14 (antigen)
 CD19 (antigen)
 CD2 (antigen)
 CD20 (antigen)
 CD22 (antigen)
 CD26 (antigen)
 CD28 (antigen)
 CD3 (antigen)
 CD34 (antigen)
 CD36 (antigen)
 CD38 (antigen)
 CD4 (antigen)
 CD40 (antigen)
 CD44 (antigen)
 CD45 (antigen)
 CD5 (antigen)
 CD59 (antigen)
 CD68 (antigen)
 CD69 (antigen)
 CD7 (antigen)
 CD8 (antigen)
 CD80 (antigen)
 CD86 (antigen)
 CFTR (cystic fibrosis transmembrane conductance regulator)
 CTLA-4 (antigen)
 Calcitonin gene-related peptide receptors

Calcitonin receptors
Calnexin
Calretinin
Cannabinoid receptors
Carcinoembryonic antigen
Cell adhesion molecules
Ciliary neurotrophic factor
Clathrin
Clusterin
Corticosteroid receptors
Corticotropin releasing factor receptors
Cyclophilins
Desmins
Dynamin
Dyneins
Dystrophin
Elastins
Epidermal growth factor receptors
Erythropoietin receptors
FSH receptors
Fas antigen
Ferritins
Fibrinogens
Fibronectins
GTPase-activating **protein**
Gastrin-releasing peptide receptors
Gelsolin
Glucagon receptors
Glucagon-like peptide-1 receptors
Glucocorticoid receptors
Gonadotropin receptors
Gonadotropin-releasing hormone receptor
Growth factor receptors
Growth hormone receptors
Growth hormone-releasing hormone receptors
Hemoglobins
Hemopexins
Hepatocyte growth factor
Heregulins
Immunoglobulin receptors
Insulin receptors
Insulin-like growth factor I receptors
Insulin-like growth factor II receptors
Interleukin 1 receptor antagonist
Interleukin 1 receptors
Interleukin 10
Interleukin 11
Interleukin 13
Interleukin 1.alpha.
Interleukin 1.beta.
Interleukin 3
Interleukin 3 receptors
Interleukin 4
Interleukin 4 receptors
Interleukin 5
Interleukin 5 receptors
Interleukin 6
Interleukin 6 receptors
Interleukin 7
Interleukin 7 receptors
Interleukin 8
Interleukin 8 receptors
Interleukin 9
Intrinsic factors
Invariant chain (class II antigen)
LFA-3 (antigen)

Lactoferrins
Leptin receptors
Leukemia inhibitory factor
Leukemia inhibitory factor receptors
Leukosialin
Lymphotoxin
Macrophage colony-stimulating factor receptors
Macrophage inflammatory **protein 2**
Metallothioneins
Mineralocorticoid receptors
Moesins
Monocyte chemoattractant **protein-1**
Multidrug resistance **proteins**
Myelin P0 **protein**
Myelin basic **protein**
Myoglobins
Nerve growth factor receptors
Neurotensin receptors
Nicotinic receptors
Opioid receptors
Osteocalcins
Osteonectin
Osteopontin
Oxytocin receptors
Parathyroid hormone receptors
Parvalbumins
Pituitary adenylate cyclase-activating polypeptide receptor
Platelet-activating factor receptors
Platelet-derived growth factor receptors
Platelet-derived growth factors
Prion **proteins**
Progesterone receptors
Prolactin receptors
Proliferating cell nuclear antigen
Prostanoid receptors
Proteolipid **protein**
Radixin
Ras **proteins**
Rhodopsins
Ryanodine receptors
Secretin receptors
Stem cell factor
Sulfonylurea receptors
Synaptophysin
TCR .alpha..beta. (receptor)
Talin
Tau factor
Tenascins
Thrombin receptors
Thrombomodulin
Thrombospondins
Thromboxane receptors
Thyroglobulin
Thyrotropin receptors
Thyrotropin-releasing hormone receptors
Titins
Transcortins
Transferrin receptors
Transferrins
Transthyretin
Tubulins
Tumor necrosis factor receptors
Tumor necrosis factors
Urokinase-type plasminogen activator receptors
VIP receptors
Vasopressin receptors

Villin
 Vimentins
 Vinculin
 Vitamin D receptors
 neu (receptor)
 p53 (**protein**)
 .alpha.-Fetoproteins
 .alpha.1-Acid glycoprotein
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
 IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (corticosteroid-binding, core group of disease-related genes; gene
 probes used for genetic **profiling** in healthcare screening and
 planning)
 IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cortisol, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
 IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cot, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
 IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (crk, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
 IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (crkl, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
 IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cubilins, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
 IT Ion channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cyclic nucleotide gated .alpha.3, core group of disease-related genes;
 gene probes used for genetic **profiling** in healthcare
 screening and planning)
 IT Phosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cyclins C, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
 IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cysteine-rich, core group of disease-related genes; gene probes used
 for genetic **profiling** in healthcare screening and planning)
 IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cystinosins, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
 IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(cytokine-suppressive antiinflammatory drug-binding 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(defender against cell death 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(deleted in azoospermia, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Mutation
(deletion, detection of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Mental disorder
(dementia, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dentin sialophosphoprotein, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(deoxycorticosterone, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Allele frequency
Genetic polymorphism
(detection of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(diaphanous 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(diastrophic dysplasia sulfate-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cardiovascular system
Digestive tract
Endocrine system
Respiratory tract
(disease, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Head
(disease, holoprosencephaly, gene HPE1 and HPE2 and HPE3 and HPE4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Behavior
Development, mammalian postnatal
Immunity
Metabolism, animal
Sexual behavior
(disorder, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (dopamine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (doublecortins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Enzymes, properties
 RL: ANT (Analyte); PRP (Properties); ANST (Analytical study)
 (drug-metabolizing, genetic variation in; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Mutation
 (duplication, detection of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (dynorphin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (dysferlin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (dyskerins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Nervous system
 (dystonia, genes DYT1 and DYT3 and DYT6 and DYT7 and CSE, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (dystrophin-assocd., 35,000-mol.-wt., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (dystrophin-assocd., 43,000-mol.-wt., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (dystrophin-assocd., 50,000-mol.-wt., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Initiation factors (**protein** formation)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (eIF-4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ect2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Flavoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(electron-transporting flavoproteins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(emerins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(empty spiracles homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(endobrevins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Heart
(endocardium, fibroelastosis 2, gene EFE2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(endometrial bleeding-assocd. factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ephrin A and B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(erythroid kruppel-like factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(exotosin 1 and 2 and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Intestine, neoplasm
(familial polyposis, clin. management of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(fertilin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(folate, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(folate-transporting, core group of disease-related genes; gene probes

used for genetic **profiling** in healthcare screening and planning)

- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (follicular lymphoma variant translocation gene FVT1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (frataxins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ganglioside GM2-activator, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gap junction-specific, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gastrointestinal hormone receptors
 Peptide receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gastric inhibitory polypeptide, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gastrulation brain homoeobox 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene BCL1 and BCL4 through BCL10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene BCL2-related A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cockayne's syndrome
 (gene CKN1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Deafness
 (gene DFNAS AND DDP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene ERCC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene ERCC2, core group of disease-related genes; gene probes used for

genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene ERCC3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene ERCC4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene ERCC6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Kallmann syndrome
 (gene KAL1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD51, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD52, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD54, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD55, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD57, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Sjogren's syndrome
 (gene SSA1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene TFE3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Wiskott-Aldrich syndrome
 (gene WASP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene WT2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene WT4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene bcl-3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene c-erbB4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene mutL, homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene mutS, homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Genome
Genotyping (method)
Health
Nucleic acid hybridization
Prognosis
Test kits
(gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); BPR (Biological process); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
(gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antibodies
Probes (nucleic acid)
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene smoothened, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt2, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt4, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt5, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt7, core group of disease-related genes; gene probes

- used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene wnt8, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (geniospasm 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gephyrins, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)
- IT Neurotrophic factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glial-derived neurotrophic factor, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Neurotrophic factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glial-derived, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Chloride channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glioma CCC, core group of disease-related genes; gene probes used for genetic profiling in healthcare **screening** and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glucose phosphate-transporting, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glucose-transporting, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glucose/galactose-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glutamate-transporting, 1 and 2, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (glutamine-transporting, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening **and** planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (glycine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glycophorin B, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glycophorin C, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glypican 3, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(green cone pigment, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(growth arrest-specific homeobox, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(growth factor receptor-bound protein 2, core **group** of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(growth-related, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(guanylate cyclase-activating 1A, core group of disease-**related** genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT G proteins (guanine nucleotide-binding proteins)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gusducin .alpha., core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Kinesins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(heavy and light chains, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(hepatic 1 and 2, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Growth factor receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (heregulin, erbB-3, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)

IT Kininogens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (high-mol.-wt., core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hsl, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hs2, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (huntingtin, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hydrogen ion-sodium-exchanging, 1-5, core group of disease-**related** genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hydrogen ion-transporting, VPP1 and VPP3, core group of disease-**related** genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Embryo, animal
 (hypohidrotic ectodermal dysplasia, gene ED1, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)

IT Brain, disease
 (injury, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)

IT Mutation
 (insertion, detection of; gene probes used for genetic profiling in healthcare screening and **planning**)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (insulin promoter factor 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (int-2, core group of disease-related genes; gene probes used for genetic profiling **in** healthcare screening and planning)

IT CD antigens
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (integrin .alpha.7, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT CD antigens

Integrins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (integrin .beta.5, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT CD antigens

Integrins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (integrin .beta.7, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Proteins, specific or class

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interferon regulatory factor 4, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Interleukin receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 10 receptors, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)

IT Interleukin receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 11 receptors, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)

IT Interleukin receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 13 receptors, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Interleukin receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 9 receptors, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Lipoprotein receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (intermediate-d. lipoprotein receptors, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Phosphoproteins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (kinectins, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Proteins, specific or class

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (lamins, A/C, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (latent transforming growth factor-.beta.-binding 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (leukocyte-specific transcript 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Leukotriene receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (leukotriene B4, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Leukotriene receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (leukotriene D4, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Immunoglobulins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (light chains, .kappa. const. and variable regions, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Muscular dystrophy
 (limb-girdle, Genes LHX1 and LHX2 and LHX3 and LHX4, core **group** of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (limbic-assocd. membrane, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Annexins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (lipocortins, 1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Potassium channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (long QT-type 2, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (loricrins, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Lipoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (low-d., 1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Lipoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (low-d., 2, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (lpsa, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
 (lunatic fringe secreted, core group of disease-related **genes**
 ; gene probes used for genetic profiling in healthcare screening and
 planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (lymphoblastic leukemia-derived sequence 1, core group of disease-
 related **genes**; gene probes used for genetic profiling in
 healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (lymphoid enhancer-binding factor, core group of disease-related **genes**;
 gene **probes** used for genetic profiling in healthcare
 screening and planning)
- IT Lymphokine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (lymphotoxin, core group of disease-related **genes**; gene probes used for
genetic profiling in healthcare screening and planning)
- IT Cytokine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (macrophage inflammatory protein 1.alpha. receptors, core group of
 disease-related **genes**; gene probes used for genetic profiling
 in healthcare screening and planning)
- IT Cytokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (macrophage inflammatory protein, core group of disease-related **genes**;
 gene probes **used** for genetic profiling in healthcare
 screening and planning)
- IT Cytokine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (macrophage inflammatory protein-2, core group of disease-related
genes; gene probes **used** for genetic profiling in healthcare
 screening and planning)
- IT Cytokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (macrophage-activating factor, core group of disease-related **genes**;
 gene probes used **for** genetic profiling in healthcare
 screening and planning)
- IT Eye, disease
 (macular dystrophy, gene VMD1, core group of disease-related **genes**;
 gene **probes** used for genetic profiling in healthcare
 screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (malignant proliferation MPE, core group of disease-related **genes**; gene
probes used for genetic profiling in healthcare screening and
 planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (manic fringe secreted, core group of disease-related **genes**;
gene probes used for genetic profiling in healthcare screening
 and planning)
- IT Agglutinins and Lectins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (mannose-binding, 1 and 2, core group of disease-related **genes**
 ; gene probes used for genetic profiling in healthcare screening and

- planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mannose-binding, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(marenostriins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mdm-2, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Pituitary hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(melanocortin 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Pituitary hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(melanocortin 4, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Pituitary hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(melanocortin, melanocortin 2 receptors, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(menin, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mesoderm-specific transcript, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(met, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(microphthalmia-assocd., core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(microtubule-assocd., core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(midline 1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mismatch repair gene PMS1 and PMS2, core group of **disease**-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Mutation
(missense, detection of; gene probes **used** for genetic profiling in healthcare screening **and** planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(monoamine-transporting, 1 and 2, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(monocarboxylic acid-transporting, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Lipids, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mucolipids, metabolic disorders, mucolipidosis, core group of disease-related genes; **gene** probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mycilins, core group of disease-related genes; gene **probes** **used** for genetic profiling in healthcare screening and planning)
- IT Myeloproliferative disorders
(myelodysplasia, gene MDS1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Lymphokines
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myeloid leukemia factor-1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myomesins, 1 and 2, core group of disease-**related** genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Vision
(myopia, genes MYP1 and MYP2, core group of disease-related genes; **gene** probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myosin-binding C, core group of disease-related genes; **gene** probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myotubularins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

- planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (natural resistance-assocd. macrophage protein 1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (needlins, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Kidney, disease
 (nephronophthisis 1 and 2, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neural retina-specific, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neurexins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Growth factors, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neurite extension factors, 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Growth inhibitors, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neurite growth inhibitors, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Protein receptors
 Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neuronal mol.-1, core group of disease-related genes; **gene** probes **used** for genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neurotransmitter-transporting, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neutral amino-acid-transporting, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (neutrophil cystolic factor 1 and 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (niacin, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (nibrins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (nodal, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (noggin, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Calcium channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (non-voltage gated 1 .alpha. and .beta. and .gamma. and type IV .alpha. and .beta., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Mutation
 (nonsense, detection of; gene probes used for genetic profiling in healthcare screening and **planning**)

IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (norepinephrine-transporting, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (nuclear mitotic app. protein 1, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)

IT Albinism
 (ocular, type 1, gene OAl, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Albinism
 (oculocutaneous, gene OCA2, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (oligophrenin-1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (oncostatin M, core group of disease-related genes; gene probes used for genetic profiling **in** healthcare screening and planning)

IT Protein receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (orexin 1 and 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)

IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
 (org. anion-transporting, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (otoferlins, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (p16INK4, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (p21CIP1/WAF1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (p27KIP1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (p54, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (paired box homeodomain 2 and 3, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (pancretic lipase-related 1 and 2, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Paralysis
 (paraplegia, gene SPG7, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (parkins, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (peanut-like 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (pendrins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (peptide-transporting, core group of disease-related genes; gene probes

- used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (peripherins (eye rod outer segment), core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Phosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (peripherins (neuronal intermediate filament), core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (peroxisomal membrane protein 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (peroxisome 1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Peroxisome proliferators
 (peroxisome biogenesis factors 1 and 6 and 7, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (phosphatase and tensin homolog, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (phosphatidylinositol transfer protein, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Glycophospholipids
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (phosphatidylinositol-contg., core group of disease-related genes; gene probes **used for** genetic profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (pim-1, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (plakophilin 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (platelet glycoprotein 1b.alpha. and 1b.beta. and 1b.**delta**. and IX and V, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(plectins, 1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Growth factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pleiotrophin, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Kidney, disease
(polycystic, gene PKHD1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(polycystins, 1 and 2, core group of disease-related **genes**; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, **specific** or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(postsynaptic d.-95, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Transcription **factors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pre-B-cell leukemia 1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Disease, animal
(prognosis and management of; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(prohibitins, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(proline-rich, BstNI subfamily 1 and 3 and 4, **core** group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Leukemia
(promyelocytic, gene PML, core group of disease-related genes; **gene** probes used for **genetic** profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(prosaposins, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pti-lsea, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pvt-1, core group of disease-related genes; **gene** probes used for **genetic** profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (r-myc, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(rabphilins, 3A, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(rabphilins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(radical fringe secreted, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Mutation
(rearrangement, detection of; gene probes used for genetic profiling in healthcare screening and **planning**)
- IT Heregulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(receptors, ErbB-3, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Interleukin 10
Interleukin 11
Interleukin 12
Interleukin 13
Interleukin 9
Pleiotrophins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(receptors, core group of disease-related genes; gene probes **used** for **genetic profiling in** healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(red cone pigment, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ret, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Eye, disease
(retinitis pigmentosa, genes RP1 and RP2 and RP3 and RP6, core **group** of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(retinol-binding, 1 and 2 and 4, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Eye, disease
(retinoschisis gene RS, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Brain, neoplasm
(rhabdoid, gene SMARCB1, core group of disease-related genes; gene

- probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(rod outer membrane segment membrane protein 1, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(semaphorin A4 and A5 and D and E and F and W, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(serotonin-transporting, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Immunodeficiency
(severe combined, gene SCIDA, **core** group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(short stature homeobox, **core** group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(sine oculis homeobox homolog 1 and 2 and 5, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Ribonucleoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(small nuclear RNA-contg., N, **core** group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(smoothelins, **core** group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(solute carrier family, **core** group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Hedgehog protein
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(sonic, **core** group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(sorcins, **core** group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (sperm adhesion mol., core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Nervous system
(spinocerebellar ataxia, gene SCA8, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Mutation
(splice site, detection of; gene probes used for genetic profiling in healthcare **screening** and planning)
- IT Enzymes, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(stratum corneum chymotryptic, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(surfeit 1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(survival of motor neuron 1, core group of disease-**related** genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synapsins II, 2a and 2b, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synapsins, I, 1a and 1b, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptic vesicle amine-transporting, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptic vesicle protein 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptogyrins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptosomal-assocd., 25,000-mol.-wt., core group of disease-**related** genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Syndecans
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (syndecan-2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Syndecans
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(syndecan-4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Syndecans
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(syndecans-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(tc21, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(termination 1 and 2 and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(testis-specific protein Y, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thyroid receptor auxiliary, core group of disease-related genes; **lgene** probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thyrotroph embryonic factor, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Globulins, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thyroxine-binding, core group of disease-related genes; gene probes **used for** genetic **profiling** in healthcare screening and planning)
- IT G proteins (guanine nucleotide-binding proteins)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(transducing GNAT1 and GNAT2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(translationally-controlled tumor protein 1, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(treacle, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
 (tremor, essential, 2, core group of disease-related genes; gene
probes used for genetic profiling in healthcare screening and
 planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (triglyceride-transferring, core group of disease-related genes; gene
probes used for genetic profiling in healthcare screening and
 planning)
- IT Peptides, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (trypsinogen-activating, core group of disease-related genes; gene
probes used for genetic profiling in healthcare screening and
 planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tubby-like protein 1, core group of disease-related genes;
 gene probes used for genetic profiling in healthcare screening and
 planning)
- IT Brain, disease
 (tuberous sclerosis, gene TSC1 and TSC2, core group of disease-
related genes; gene probes used for genetic profiling in
 healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 1, core group of
 disease-related genes; gene probes used for genetic profiling in
 healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 2, core group of
 disease-related genes; gene probes used for genetic profiling in
 healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 3, core group of
disease-related genes; gene probes used for genetic profiling
 in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 4, core **group**
 of disease-related genes; gene probes used for genetic profiling in
 healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 5, core **group**
 of disease-related genes; gene probes used for genetic profiling in
 healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 6, **core** group
 of disease-related genes; gene probes used for genetic profiling in
 healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tumor suppressor, DRA, core group of disease-related genes; gene

probes **used** for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor-assocd. p63, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor-assocd. p73, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)

IT Complement receptors
 Fibroblast growth factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type 1, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)

IT Complement receptors
 Fibroblast growth factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type 2, core group of disease-related genes; **gene probes used** for genetic profiling in healthcare screening and planning)

IT Fibroblast growth factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type 3, core group of disease-related genes; **gene probes used** for genetic profiling in healthcare screening and planning)

IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type I, .alpha.1 and .alpha.2, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)

IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type II, .alpha.1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)

IT Activin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type IIB, core group of disease-related genes; **gene probes used** for genetic profiling in healthcare screening and planning)

IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type III, .alpha.1, core group of disease-related genes; **gene probes used** for genetic profiling in healthcare screening and planning)

IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type IV, .alpha.1 through .alpha.6, core group of **disease**-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)

IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type IX, .alpha.2 and .alpha.3, core group of disease-related **genes**; **gene probes** used for genetic profiling in healthcare screening and planning)

IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
 (type V, .alpha.1 and .alpha.2, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type VI, .alpha.1 and .alpha.2 and .alpha.3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type VII, .alpha.1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type X, .alpha.1, core group of **disease-related** genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type XVII, .alpha.1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ubiquitin fusion degeneration 1-like, core group of **disease-related** genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Enzymes, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ubiquitin-activating, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (undulins, 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Peptides, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (vasoinhibitory, core group of disease-related genes; gene probes used **for genetic** profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (vavtrk, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Lipoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (very-low-d., core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Calcium channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (voltage-dependent, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Potassium channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (voltage-gated E1 and Q1 and Q2 and Q3 and Q4, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Calcium channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (voltage-gated type 1.beta., core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Nervous system
 (von Hippel-Lindau disease, gene VHL, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (winged helix nude, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Skin, disease
 (xeroderma pigmentosum I, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (yes, core group of disease-related genes; gene probes used for genetic profiling **in** healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (yuasa, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Adhesins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (zonadhesins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Opioid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.kappa.-opioid, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT GABA receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha. and .beta. and .gamma. subunits, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Fibrinogens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha. and .beta. and .gamma., core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Glycine receptors
 Granulocyte-macrophage colony-stimulating factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha. and .beta., core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Catenins
 Interferons
 Interleukin 8 receptors
 Peroxisome proliferator-activated receptors
 Thyroid hormone receptors

Vitronectin receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha., core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)

IT Actinins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.-, 2 and 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Actins

Spectrins

Transforming growth factors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Thalassemia

(.alpha.-, gene ATRX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Interleukin 2 receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.-chain, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.-tectorin, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.-tocopherol-binding, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)

IT Haptoglobin

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.1 and .alpha.2, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)

IT Integrins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Integrins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.9, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Crystallins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.A-, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Crystallins

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.alpha.B-, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Adrenoceptors
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.1, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)

IT Adrenoceptors
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.2, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)

IT Macroglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.2-, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)

IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.2-macroglobulin, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)

IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.3, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)

IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.4, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)

IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.5, core group of disease-related genes; gene probes **used for genetic profiling** in healthcare screening and planning)

IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.6, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)

IT Interferons
Interleukin 8 receptors
Thyroid hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.beta., core group of disease-related genes; gene probes used **for genetic profiling in healthcare screening and planning**)

IT Actins
Catenins
Spectrins
Transforming growth factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.beta.-, core group of disease-related genes; gene probes used **for genetic profiling in healthcare screening and planning**)

IT Interleukin 2 receptors

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-chain, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-galactosidase-protective, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)

IT Transforming growth factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-induced, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Transforming growth factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-transforming growth factor type II, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Adrenoceptors
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.1, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Adrenoceptors
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.2, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Microglobulins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.2-, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Adrenoceptors
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.3, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.4, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.6, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Catenins
 Interferons
 Peroxisome proliferator-activated receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.gamma., core group of disease-related genes; gene **probes** used for **genetic profiling** in healthcare screening and planning)

- IT Crystallins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Actins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-actins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Interleukin 2 receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-chain, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Interferon receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-interferon, core group of disease-related genes; gene probes used for **genetic** **profiling** in healthcare screening and planning)
- IT Opioid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.delta.-opioid, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Opioid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.mu.-opioid, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT 9032-64-8, Nucleotide pyrophosphatase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1 and 2 and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 80146-85-6, Transglutaminase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1 and 2 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9002-08-8, Trypsinogen 9004-06-2, Elastase 39391-18-9
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9002-72-6, Somatotropin 9023-88-5, Phosphomannose isomerase 9031-68-9, Galactosyltransferase 37205-61-1, Protease inhibitor 152166-53-5, Neurotrophic factor receptor kinase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9038-14-6
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1-4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 76901-00-3, Platelet-activating factor acetylhydrolase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1B and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 56626-18-7, Fucosyltransferase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (2 and 3 and 6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 39391-18-9, Prostaglandin endoperoxide synthase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9035-37-4, Cytochrome b
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (245.alpha. and 245.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9001-01-8, Kallikrein
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9001-60-9, Lactate dehydrogenase 9001-66-5, Monoamine oxidase
 9027-52-5, Hexosaminidase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A and B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9031-96-3, Peptidase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A and C and E and S, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9033-07-2, Glycosyltransferase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ABO blood group, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9002-69-1, Relaxin
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H1 and H2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 86480-67-3, Ubiquitin C-terminal hydrolase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (L1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 213903-53-8, Cryptochrome 1
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (and cryptochrome 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 50-56-6, Oxytocin, biological studies 70-18-8, Glutathione, biological studies 113-79-1 1393-25-5, Secretin 9000-81-1, Acetylcholinesterase 9000-83-3, Complex V (mitochondrial electron transport) 9000-86-6, Alanine aminotransferase 9000-90-2, .alpha.-Amylase 9000-92-4, Amylase 9000-94-6, Antithrombin III 9000-96-8, Arginase 9000-97-9 9001-03-0, Carbonic anhydrase 9001-05-2, Catalase 9001-06-3, Chitotriosidase 9001-08-5, Butyrylcholinesterase 9001-10-9, Pepsinogen 9001-12-1, Matrix metalloproteinase 1 9001-15-4, Creatine kinase 9001-16-5, Complex IV (mitochondrial electron transport) 9001-18-7, Dihydrolipoyl dehydrogenase 9001-24-5, Blood-coagulation factor V 9001-25-6, Blood-coagulation factor VII 9001-27-8, Blood-coagulation factor VIII 9001-28-9, Blood-coagulation factor IX 9001-29-0, Blood-coagulation factor X 9001-30-3, Blood-coagulation factor XII 9001-36-9 9001-39-2, Glucose 6 phosphatase 9001-40-5, Glucose 6 phosphate dehydrogenase 9001-41-6, Phosphoglucose isomerase 9001-42-7,

.alpha.-Glucosidase 9001-45-0, .beta.-Glucuronidase 9001-47-2, Glutaminase 9001-48-3, Glutathione reductase 9001-50-7, Glyceraldehyde 3 phosphate dehydrogenase 9001-51-8, Hexokinase 9001-52-9, Fructose diphosphatase 9001-54-1, Hyaluronidase 9001-58-5, Isocitrate dehydrogenase 9001-59-6, Pyruvate kinase 9001-63-2, Lysozyme 9001-64-3, Malate dehydrogenase 9001-67-6, Neuraminidase 9001-69-8, Ornithine transcarbamoylase 9001-75-6, Pepsin 9001-80-3, Phosphofructokinase 9001-81-4, Phosphoglucosmutase 9001-83-6, Phosphoglycerate kinase 9001-84-7, Phospholipase A2 9001-86-9, Phospholipase C 9001-88-1, Phosphorylase kinase 9001-91-6, Plasminogen 9001-97-2, Glycogen branching enzyme 9002-02-2, Succinate dehydrogenase 9002-03-3, Dihydrofolate reductase 9002-10-2, Tyrosinase 9002-12-4, Urate oxidase 9002-61-3, Chorionic gonadotrophin 9002-62-4, Prolactin, biological studies 9002-64-6, Parathyroid hormone 9002-68-0, FSH 9002-71-5, TSH 9002-76-0, Gastrin 9003-99-0, Eosinophil peroxidase 9004-02-8, Lipoprotein lipase 9004-10-8, Insulin, biological studies 9007-43-6, Cytochrome c, biological studies 9011-97-6, Cholecystokinin 9012-25-3, Catechol-O-methyltransferase 9012-31-1, Acetyl-CoA synthase 9012-39-9, ATP sulfurylase 9012-42-4, Adenylate cyclase 9012-47-9, Amylo-1,6-glucosidase 9012-49-1, Aspartate transcarbamoylase 9012-52-6, Methionine adenosyltransferase 9012-56-0, Amidase 9012-78-6, Choline acetyltransferase 9012-90-2, DNA polymerase 9012-93-5, Ferrochelatae 9012-96-8, Cystathionase 9013-02-9, Adenylate kinase 9013-08-5, Phosphoenolpyruvate carboxykinase 9013-18-7, Long chain acyl coa synthetase 9013-38-1, Dopamine .beta.-hydroxylase 9013-55-2, Blood-coagulation factor XI 9013-56-3, Blood-coagulation factor XIII 9013-66-5, Glutathione peroxidase 9013-75-6, Histidase 9014-08-8, Enolase 9014-19-1, Pyruvate carboxylase 9014-24-8, RNA polymerase 9014-36-2, Succinate thiokinase 9014-42-0, Thrombopoietin 9014-48-6, Transketolase 9014-51-1, Tryptophan 2,3-dioxygenase 9014-55-5, Tyrosine aminotransferase 9014-56-6, Glycogen synthase 9014-74-8, Enterokinase 9015-67-2, Alanine-glyoxylate aminotransferase 9015-71-8, ACTH-releasing hormone 9015-81-0, 9015-82-1, Angiotensin converting enzyme 9015-83-2, Phosphoribosyl pyrophosphate synthetase 9015-85-4, DNA ligase 9015-94-5, Renin, biological studies 9016-11-9, Galactose 1-phosphate uridylyltransferase 9016-12-0, 9016-17-5, Arylsulfatase 9016-18-6, Carboxylesterase 9023-26-1, COA transferase 9023-56-7, CTP synthetase 9023-58-9, Arginosuccinate synthetase 9023-62-5, Glutathione synthetase 9023-64-7, Glutamate-cysteine ligase 9023-69-2, Asparagine synthetase 9023-70-5, Glutamine synthase 9023-78-3, Triose phosphate isomerase 9023-90-9, Methylmalonyl-CoA mutase 9023-91-0, Phosphoglycerate mutase 9023-93-2, Acetyl-CoA carboxylase 9023-94-3, Propionyl-CoA carboxylase 9023-99-8, Cystathionine .beta.-synthase 9024-25-3, Aconitase 9024-52-6, 9024-58-2, Glutamate decarboxylase 9024-70-8, Uroporphyrinogen decarboxylase 9024-78-6, Kynureninase 9024-93-5, Dihydroorotase 9024-99-1, Malonyl-CoA decarboxylase 9025-06-3, Cytidine deaminase 9025-10-9, AMP deaminase 9025-15-4, Biotinidase 9025-26-7, Cathepsin D 9025-32-5, 9025-35-8, .alpha.-Galactosidase 9025-42-7, .alpha.-Mannosidase 9025-43-8, .beta.-Mannosidase 9025-52-9, Trehalase 9025-54-1, Adenosylhomocysteinase 9025-62-1, Steroid sulfatase 9025-90-5, Hydroxyacyl glutathione hydrolase 9026-22-6, UDP-glucose pyrophosphorylase 9026-23-7, Carbamoylphosphate synthetase 9026-51-1, Nucleoside diphosphate kinase 9026-59-9, Guanylate kinase 9026-89-5, Dihydropyrimidine dehydrogenase 9026-93-1, Adenosine deaminase 9027-03-6, Complex III (mitochondrial electron transport) 9027-13-8, Enoyl-CoA hydratase 9027-21-8, Carnosinase 9027-27-4, .beta.-Ureidopropionase 9027-33-2, 9027-34-3, 9027-43-4, 3-Oxoacid CoA transferase 9027-44-5, HMG-CoA synthase 9027-46-7, Thiolaase II 9027-67-2, Terminal deoxynucleotidyltransferase 9027-80-9, Adenine phosphoribosyltransferase 9027-81-0, Adenylosuccinate lyase 9027-88-7, Short-chain acyl CoA dehydrogenase 9027-89-8, Galactocerebrosidase 9027-96-7, Citrate synthase 9028-04-0, 9028-06-2, 9028-11-9, Complex II (mitochondrial electron transport) 9028-16-4, Xylitol dehydrogenase 9028-21-1, Sorbitol dehydrogenase 9028-31-3, Aldose reductase

9028-35-7 9028-38-0, D-.beta.-Hydroxybutyrate dehydrogenase 9028-41-5
 9028-86-8, Aldehyde dehydrogenase 9028-93-7, IMP dehydrogenase
 9028-95-9, Succinic semialdehyde dehydrogenase 9029-12-3 9029-38-3,
 Sulfite oxidase 9029-49-6, Homogentisate 1,2-dioxygenase 9029-60-1,
 Lipoygenase 9029-61-2, Kynurenine hydroxylase 9029-72-5,
 4-Hydroxyphenylpyruvate dioxygenase 9029-73-6, Phenylalanine hydroxylase
 9029-75-8, Guanidinoacetate methyltransferase 9029-83-8, Serine
 hydroxymethyltransferase 9029-84-9, Glycine Formiminotransferase
 9029-87-2, Malonyl-CoA carboxyltransferase 9029-97-4, Acetyl CoA
 acyltransferase 9030-08-4, UDP-Glucuronosyltransferase 9030-21-1,
 Purine nucleoside phosphorylase 9030-42-6 9030-50-6, Ketohexokinase
 9030-53-9, Galactokinase 9030-66-4, Glycerol kinase 9030-74-4,
 Dihydropyrimidinase 9030-83-5, HMG-CoA lyase 9030-87-9,
 15-Hydroxyprostaglandin dehydrogenase 9031-02-1, .alpha.-Ketoglutarate
 dehydrogenase 9031-11-2, .beta.-Galactosidase 9031-14-5,
 Lecithin-cholesterol acyltransferase 9031-28-1, Thyroid peroxidase
 9031-36-1, Steroid .DELTA.-isomerase 9031-37-2, Ceruloplasmin
 9031-54-3, Sphingomyelinase 9031-61-2, Thymidylate synthase 9031-72-5,
 Alcohol dehydrogenase 9031-82-7, Glutamine phosphoribosylpyrophosphate
 amidotransferase 9031-86-1, Aspartoacylase 9031-98-5, Carboxypeptidase
 9032-02-4 9032-22-8, NADPH oxidase 9032-28-4, Dihydrolipoyl
 succinyltransferase 9032-29-5 9032-59-1, Fumarylacetoacetase
 9032-76-2, Dehydroepiandrosterone sulfotransferase 9032-88-6, Fumarase
 9032-89-7, UDP-galactose-4-epimerase 9034-39-3, Growth hormone releasing
 hormone 9034-40-6, LH-releasing hormone 9035-34-1, Cytochrome a
 9035-39-6, Cytochrome b5 9035-51-2, Cytochrome P 450, biological studies
 9035-54-5, Placental lactogen 9035-58-9, Blood-coagulation factor III
 9035-74-9, Glycogen phosphorylase 9035-75-0, Chymotrypsinogen
 9035-81-8, Trypsin inhibitor 9036-20-8 9036-22-0, Tyrosine hydroxylase
 9036-23-1, UMP kinase 9036-37-7, .delta.-Aminolevulinate dehydrase
 9036-43-5, Steroid .DELTA.4-5.alpha.-reductase 9037-14-3,
 .delta.-Aminolevulinate synthase 9037-21-2, Tryptophan hydroxylase
 9037-42-7, DNA methyltransferase 9037-65-4, .alpha.-L-Fucosidase
 9037-67-6, GABA transaminase

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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profiling in healthcare screening and planning)

IT 9037-68-7, Phenylethanolamine methyltransferase 9039-06-9, Cytochrome P
 450 reductase 9039-45-6, Deoxycytidine kinase 9040-57-7,
 Ribonucleotide reductase 9041-46-7, 11.beta.-Hydroxysteroid
 dehydrogenase 9041-92-3, .alpha.1-Antitrypsin 9042-64-2, DOPA
 decarboxylase 9044-50-2, Steroid 17-20 desmolase 9044-85-3,
 3.beta.-Hydroxysteroid dehydrogenase 9044-86-4, Dehydratase 9046-27-9,
 .gamma.-Glutamyltransferase 9047-22-7, Cathepsin B 9047-64-7,
 Ribonucleoside diphosphate reductase 9048-63-9, Epoxide hydrolase
 9050-70-8, Proline dehydrogenase 9054-54-0, Acyltransferase 9054-63-1,
 Microsomal aminopeptidase 9054-65-3, Branched chain aminotransferase
 9054-75-5, Guanylate cyclase 9054-84-6, Xanthine dehydrogenase
 9054-89-1, Superoxide dismutase 9055-02-1, Prekallikrein 9055-67-8,
 Poly(ADP-ribose) synthetase 9056-26-2, Peptidase B 9059-22-7, Heme
 oxygenase 9059-25-0, Lysyl hydroxylase 9060-09-7, Uteroglobins
 9061-61-4, Nerve growth factor 9067-97-4, .DELTA.4-3-Oxosteroid
 5.beta.-reductase 9068-41-1, Carnitine palmitoyltransferase 9068-44-4,
 Procollagen peptidase 9068-57-9, Acrosin 9068-75-1, Glucagon
 synthetase 9073-56-7, .alpha.-L-Iduronidase 9074-10-6, Biliverdin
 reductase 9074-11-7, Dihydropteridine reductase 9074-91-3,
 Porphobilinogen deaminase 9075-24-5, Aspartylglucosaminidase
 9075-65-4, Glycerophosphate dehydrogenase 9075-81-4 9076-84-0,
 Coproporphyrinogen oxidase 9077-03-6, 17-Ketosteroid reductase
 9079-67-8, NADH dehydrogenase 9080-21-1, 7-Dehydrocholesterol reductase
 9081-34-9, Steroid 5.alpha.-reductase 9082-57-9, Inosine triphosphatase
 9082-72-8, Branched chain keto acid dehydrogenase 11002-13-4,
 Angiotensinogen (protein renin substrate) 11016-39-0, Properdin
 11096-26-7, Erythropoietin 12651-27-3, Transcobalamin 1 12651-28-4,
 Transcobalamin 2 24305-27-9, Thyrotropin releasing hormone 37184-63-7,

Inositol monophosphatase 37211-69-1, 2,3-Bisphosphoglycerate mutase
 37213-56-2, Complement factor D 37221-79-7, Vasoactive intestinal
 polypeptide 37228-64-1, Acid .beta.-glucosidase 37233-48-0,
 Carbamoylphosphate synthetase 37255-32-6, Dihydrodiol dehydrogenase
 37255-38-2, Glutaryl-CoA dehydrogenase 37255-40-6, Glycine dehydrogenase
 37256-36-3 37257-08-2, Aminomethyltransferase 37257-17-3, Malonyl-CoA
 transacylase 37257-19-5, Dihydroxyacetone phosphate acyltransferase
 37270-64-7, Acyl-CoA thioesterase 37274-61-6, Isovaleryl-CoA
 dehydrogenase 37277-84-2, Cobalamin adenosyltransferase 37288-39-4
 37288-40-7, .alpha.-Acetylglucosaminidase 37288-66-7, Aminopeptidase P
 37289-19-3, GTP cyclohydrolase 37289-34-2 37289-41-1, Heparin
 sulfamidase 37290-90-7, Methionine synthase 37340-55-9,
 Uroporphyrinogen III synthase 39346-44-6, Inter-.alpha.-trypsin
 inhibitor 39362-14-6, Prolactin-releasing hormone 39379-15-2,
 Neurotensin 39419-81-3, Holocarboxylase synthetase 50812-31-2
 50812-37-8, Glutathione S-transferase 50936-59-9, Iduronate 2-sulfatase
 51110-01-1, Somatostatin 52906-92-0, Motilin 53096-17-6, Bleomycin
 hydrolase 53167-91-2, NADPH-Flavin nucleotide dehydrogenase
 53230-14-1, Preprothrombin 53986-32-6, Protoporphyrinogen oxidase
 54004-64-7, Rhodopsin kinase 55126-92-6, Colipase 55576-43-7,
 Dextrinase 56626-15-4, C3 Convertase 56645-49-9, Cathepsin G
 58319-92-9, ADP-ribosyltransferase 59299-00-2, Acetylgalactosamine 6
 sulfatase 59392-49-3, Gastric inhibitory polypeptide 59536-74-2,
 Long-chain acyl CoA dehydrogenase 59828-56-7, Endo-.beta.-glucuronidase
 59977-51-4, Prostaglandin endoperoxide convertase 60202-16-6, Protein C
 60267-61-0, Ubiquitin 60320-99-2, Acetylglucosamine 6 sulfatase
 60616-82-2, Cathepsin L 60748-73-4, Cathepsin H 60832-04-4,
 Thromboxane A2 synthetase 61116-24-3, Preproinsulin 61512-21-8,
 Thymosin 61811-29-8, Apurinic endonuclease 62031-54-3, Fibroblast
 growth factor 62213-29-0 62229-50-9, Epidermal growth factor
 63340-72-7, Thymic humoral factor 64885-96-7, DNA primase 65802-85-9,
 Prostaglandin D synthase 65802-86-0, Prostacyclin synthase 65979-40-0,
 Bile acid CoA amino acid N-acyltransferase 66796-54-1,
 Proopiomelanocortin 67339-09-7, Thiopurine S-methyltransferase
 67763-96-6, Insulin-like growth factor 1 67763-97-7, Insulin-like growth
 factor II 68651-94-5 70356-40-0, DNA glycosylase 70712-46-8,
 Iodothyronine 5'-deiodinase 71822-25-8, 5,10-Methylenetetrahydrofolate
 reductase 71965-46-3, Cathepsin S 73508-07-3, Molybdoenzyme molybdenum
 cofactor 73562-26-2 74506-38-0, Medium-chain acyl CoA dehydrogenase
74812-49-0, Ubiquitin protein ligase
 74870-74-9, UMP synthetase 75432-63-2, Preproglucagon 75922-89-3,
 Pyrroline-5-carboxylate synthetase 77271-19-3 78689-77-7,
 6-Phosphofructo-2-kinase 78783-52-5 78990-62-2, Calpain 79955-99-0,
 Matrix metalloproteinase 3 80043-53-4, Gastrin releasing peptide
 80295-33-6, Complement C1q 80295-34-7, Complement C1r 80295-35-8,
 Complement C1s 80295-38-1 80295-40-5, Complement C2 80295-41-6,
 Complement C3 80295-49-4, Complement C4A 80295-50-7, Complement C4B
 80295-53-0, Complement C5 80295-56-3, Complement C6 80295-57-4,
 Complement C7 80295-58-5, Complement C8 80295-59-6, Complement C9
 80295-65-4, Complement factor H 80295-66-5, Complement factor I
 80497-65-0, Antimullerian Hormone 81181-72-8, .gamma.-Glutamyl
 carboxylase 81604-65-1, Heparin cofactor ii 81627-83-0,
 Colony-stimulating factor 1 82707-54-8, Neutral endopeptidase
 82785-45-3, Neuropeptide Y 82869-38-3, 2,4-Dienoyl CoA reductase
 83869-56-1, Colony-stimulating factor 2 85637-73-6, Atrial natriuretic
 peptide 85638-40-0, Polylactosamine branching
 acetylglucosaminyltransferase 86551-03-3, Electron transfer flavoprotein
 dehydrogenase 86933-74-6, Neurokinin A 87683-70-3,
 Pterin-4.alpha.-carbinolamine dehydratase 88402-55-5, Prodynorphin
 90119-07-6, Leukotriene A4 hydrolase 90597-47-0, Peptidylglycine
 .alpha.-amidating monooxygenase 90698-32-1, Leukotriene C4 synthase
 91448-99-6, Cystatin C 92769-12-5, Proliferin (protein) 92941-56-5,
 Serotonin acetyltransferase 93443-35-7, Preproenkephalin 93792-73-5,
 Colony-stimulating factor 3 93928-65-5, Amino adipic semialdehyde
 synthase 94716-09-3, Cathepsin K 95567-84-3, Dihydrolipoamide
 transacylase 97089-82-2, 6-Pyruvoyltetrahydropterin synthase

97501-92-3, Chymase 99085-47-9, Complement decay-accelerating factor
 99194-04-4, Cystatin B 99676-46-7, Kexin 102484-74-2, Alkylglycerone
 phosphate synthase 102577-23-1, Neurokinin B 103370-86-1,
 Parathormone-related peptide 104118-56-1, Leukotriene A4 synthase
 105913-04-0 106283-10-7, Inositol 1,4,5-triphosphate 3-kinase
 106602-62-4, Islet amyloid polypeptide 106956-32-5, Oncostatin M
 109319-16-6 109489-77-2, Tetranectin 110910-42-4, Cathepsin E
 111694-13-4, Inositol polyphosphate 1-phosphatase 114101-80-3,
 Pro-melanin-concentrating hormone 114949-22-3, Activin 115966-66-0,
 Histatin 1 115966-67-1, Histatin 3 117147-70-3, Amphiregulin
 117628-82-7, Follistatin 117698-12-1, Paraoxonase 119418-04-1, Galanin
 120178-12-3, Telomerase 121797-22-6, Histatin 2 122097-00-1,
 Cyclin-dependent kinase 8 122191-40-6, Caspase 1 122879-69-0,
 Endothelin 2 123626-67-5, Endothelin 1 124861-55-8 125692-40-2,
 Endothelin 3 125978-95-2, Nitric oxide synthase 127407-08-3, Receptor
 tyrosine kinase 127464-60-2, Vascular endothelial growth factor
 128028-50-2, Myeloblastin 128449-51-4, .alpha.1,3-Galactosyltransferase
 130939-66-1, Neurotrophin 3 137061-48-4, Pituitary adenylate
 cyclase-activating peptide 138238-81-0, Endothelin converting enzyme
 138359-29-2, c-Kit protein tyrosine kinase 138674-26-7, SYK tyrosine
 kinase 138757-15-0, .alpha.2-Antiplasmin 139466-48-1, Protein C
 inhibitor 139639-23-9, Tissue plasminogen activator 139639-24-0,
 Urokinase plasminogen activator 140158-49-2, Hippocampal cholinergic
 neurostimulating peptide 140208-22-6, CDC25 phosphatase 140208-23-7,
 Plasminogen activator inhibitor 1 140208-24-8, Tissue inhibitor of
 metalloproteinase 1 140610-48-6, Matrix metalloproteinase 10
 141176-92-3, .alpha.1-Antichymotrypsin 141256-52-2, Matrix
 metalloproteinase 7 141349-86-2, Cyclin-dependent kinase 2
 141436-78-4, Protein kinase C
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IT 141467-21-2, Calmodulin-dependent protein kinase 141588-27-4, Protein
 kinase G 141760-45-4, Furin 142008-29-5, Protein kinase A
 142243-02-5, Mitogen-activated protein kinase 142243-03-6, Plasminogen
 activator inhibitor 2 142805-56-9, Topoisomerase II 142805-58-1, MEK
 kinase 143180-75-0 143375-65-9, CDC2 kinase 144697-17-6, c-Src
 tyrosine kinase 144940-98-7, Guanylin 145267-01-2, Matrix
 metalloproteinase 11 145809-21-8, Tissue inhibitor of metalloproteinase
 3 146480-35-5, Matrix metalloproteinase 2 146480-36-6, Matrix
 metalloproteinase 9 146702-84-3, Mitogen-activated protein kinase kinase
 kinase 147014-96-8, Cyclin-dependent kinase 5 147014-97-9,
 Cyclin-dependent kinase 4 148047-29-4 148125-60-4, Protease nexin 2
 148640-14-6 149147-12-6 149885-72-3, Heme-regulated inhibitor of
 translation 150605-49-5, Palmitoyl-protein thioesterase 151662-20-3
 151769-16-3 151821-61-3, Ubiquitin B 151821-62-4, Ubiquitin C
 152478-56-3, Janus kinase 1 152478-57-4, Janus kinase 2 153190-71-7,
 Cyclin-dependent kinase 3 154531-34-7, Heparin-binding EGF-like growth
 factor 154907-66-1, Cyclin-dependent kinase 6 157482-36-5, Janus
 kinase 3 157857-10-8, Prostatin 161052-08-0, Gene tie protein kinase
 161384-17-4, Matrix metalloproteinase 14 169494-85-3, Leptin
 169592-56-7, Apopain 169592-62-5 170347-52-1, Gene nsk2 protein kinase
 170780-57-1, LIM kinase 175449-82-8, Matrix metalloproteinase 13
 179241-73-7, Activin-receptor-like kinase 1 179241-78-2, Caspase 8
 180189-96-2, Caspase 9 182372-11-8, Metalloproteinase ADAM12
 182372-14-1, Caspase 2 182372-15-2, Caspase 6 182762-08-9, Caspase 4
 182938-13-2 182970-56-5, Matrix metalloproteinase 16 185402-46-4,
 Phytanoyl-CoA hydroxylase 185857-51-6, Neurturin 186207-03-4, Tissue
 inhibitor of metalloproteinase 4 186270-49-5, Angiopoietin 1
 188364-80-9, Matrix metalloproteinase 19 189088-85-5, Caspase 10
 189088-86-6 189258-14-8, Caspase 7 192230-91-4, Mitogen-activated
 protein kinase kinase 4 192465-11-5, Caspase 5 193099-09-1,
 Metalloproteinase ADAM10 193099-10-4, Metalloproteinase ADAM15
 193099-11-5, Metalloproteinase ADAM11 193830-08-9,
 Growth/differentiation factor 5 194368-66-6, Angiopoietin 2

194554-71-7, Blood-coagulation factors, LACI 194739-73-6, MAPK kinase 6
 202420-40-4, Gene STK11 protein kinase 203810-08-6, Matrix
 metalloproteinase 17 205944-50-9, Osteoprotegerin 207004-87-3,
 Methionine synthase reductase 208349-50-2, Matrix metalloproteinase 15
 214899-28-2 216864-07-2, .alpha.-Synuclein 216864-08-3,
 .beta.-Synuclein 227184-71-6, Matrix metalloproteinase MT-MMP
 227604-60-6, Matrix metalloproteinase MT5-MMP 245359-74-4, Orexin
 248259-60-1, Ephrin-A8 receptor kinase 252337-44-3 252340-56-0
 252341-94-9 252344-02-8 252348-35-9 252348-54-2 252348-89-3
 252349-85-2 252350-00-8 252350-19-9 252350-77-9 252350-84-8
 252350-91-7 252351-00-1 252351-68-1 252351-86-3 252354-25-9
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)

(core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)

- IT 9001-62-1, Lipase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (hepatic, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
- IT 80449-02-1, Protein tyrosine kinase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (lymphocyte-specific, core group of disease-related genes; gene probes
 used for genetic **profiling** in healthcare screening and
 planning)
- IT 9001-77-8, Acid phosphatase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (lysosomal 2, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
- IT 64-85-7, Deoxycorticosterone
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (receptor, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
- IT 9025-75-6, Protein phosphatase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (regulatory subunit PPP1R3 and A, core group of disease-related genes;
 gene probes used for genetic **profiling** in healthcare
 screening and planning)
- IT 9001-78-9
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (tissue nonspecific TNSAP, core group of disease-related genes; gene
 probes used for genetic **profiling** in healthcare screening and
 planning)
- IT 79747-53-8, Protein tyrosine phosphatase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (type 12, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)
- IT 158736-49-3, .alpha.-Secretase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (.alpha. and .beta. and .gamma., core group of disease-related genes;
 gene probes used for genetic **profiling** in healthcare
 screening and planning)
- IT 57285-09-3, Inhibin
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (.alpha. and .beta.A and .beta.B and .beta.C subunits, core group of
 disease-related genes; gene probes used for genetic **profiling**
 in healthcare screening and planning)
- IT 9002-67-9, Luteinizing hormone

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-subunit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

L153 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1999:795993 HCAPLUS

DN 132:31743

TI Gene probes used for genetic **profiling** in healthcare screening and planning

IN Roberts, Gareth Wyn

PA Genostic Pharma Limited, UK

SO PCT Int. Appl., 149 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C12Q001-68

ICS C07K016-18

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 9, 13, 14

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9964626	A2	19991216	WO 1999-GB1779	19990604
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9941586	A1	19991230	AU 1999-41586	19990604
	AU 9941587	A1	19991230	AU 1999-41587	19990604
	GB 2339200	A1	20000119	GB 1999-12914	19990604

PRAI GB 1998-12098 19980606
 GB 1998-28289 19981223
 GB 1998-16086 19980724
 GB 1998-16921 19980805
 GB 1998-17097 19980807
 GB 1998-17200 19980808
 GB 1998-17632 19980814
 GB 1998-17943 19980819
 WO 1999-GB1779 19990604

AB There is considerable evidence that significant factor underlying the individual variability in response to disease, therapy and prognosis lies in a person's genetic make-up. There have been numerous examples relating that polymorphisms within a given gene can alter the functionality of the protein encoded by that gene thus leading to a variable physiol. response. In order to bring about the integration of genomics into medical practice and enable design and building of a technol. platform which will enable the everyday practice of mol. medicine a way must be invented for the DNA sequence data to be aligned with the identification of genes central to the induction, development, progression and outcome of disease or physiol. states of interest. According to the invention, the no. of genes and their configurations (mutations and polymorphisms) needed to be identified in order to provide crit. clin. information concerning individual prognosis is considerably less than the 100,000 thought to comprise the human genome. The identification of the identity of the core group of genes enables the invention of a design for genetic **profiling** technologies.

ST probe genetic **profiling** healthcare screening

IT Ankyrins

Calmodulins

Notch (**receptor**)

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1 and 2 and 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Angiotensin receptors
 Fibrillins
 Neurofibromin
 Presenilins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1 and 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Inositol 1,4,5-trisphosphate receptors
 P-glycoproteins
 Uncoupling protein
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1 and 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Chloride channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1 and 5 and KB, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Calbindins
 Keratins
 Laminin receptors
 Synaptobrevins
 Syntaxins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Keratins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (10, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Keratins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (11 and 2 and 3 and 9, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Interleukin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (12, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Keratins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (13, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Keratins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (14, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Myosins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(15 and 5A and 6 and 7A and cardiac, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(15, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(16, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(17, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(17-1A, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(18, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Melatonin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1A and 1B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Tropomyosins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(1.alpha. and 3, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Calculi, renal
(2, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Bone morphogenetic **proteins**
Synaptobrevins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(2B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
(3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(3, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(4, core group of disease-related genes; gene probes used for genetic

- profiling** in healthcare **screening** and planning)
- IT Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Laminins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5, .alpha.3 and .beta.3 and .gamma.2, core group of **disease**-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1A, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1C, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1D, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1E, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT1F, core group of disease-related genes; gene probes used for genetic profiling in healthcare **screening** and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT2A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT2B, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT2C, core group of disease-related genes; gene probes used **for** genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT3, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(5-HT7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(7, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Bone morphogenetic **proteins**
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(A, A4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Chromogranins
Cyclins
Glycophorins
Immunoglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(A, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare screening** and planning)
- IT **Apolipoproteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(A-I, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (A-II, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Heat-shock proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A1 and A2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Transport proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ABC (ATP-binding cassette-contg.), 7, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ABP (androgen-binding protein), core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ADP/ATP carrier, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (AIM1, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (AP-2 (activator protein 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (APC, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ATOH1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Apaf-1, core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)
- IT Adenosine receptors
Adenosine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT **Adenosine receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT **Adenosine receptors**

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A2b, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Adenosine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A2a, core group of disease-related genes; **gene** probes used for genetic **profiling** in healthcare screening and planning)

IT Adenosine **receptors**
 Adenosine **receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A3, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Apolipoproteins
Cyclins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (B-lym, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (B-raf, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Glycophosphoproteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (B23, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (BCR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Gene**, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (BRCA1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (BRCA1-assocd. RING domain gene 1, core group of disease-related genes; **gene** probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene**, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (BRCA2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Gene**, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (BRCD1, core group of disease-related genes; gene probes used for

- genetic **profiling** in **healthcare** screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(BRCD2, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Bagpipe homeobox, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Bcl-x, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Disease, animal
(Beckwith-Wiedemann syndrome, gene BWR1A, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Bradykinin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(B1, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Bradykinin** receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(B2, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Troponins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Chemokine **receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-C CKR-2 (cysteine-cysteine chemokine receptor 2), core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Chemokine **receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-C CKR-3 (cysteine-cysteine chemokine receptor 3), core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Chemokine** receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-C CKR-5 (cysteine-cysteine chemokine receptor 5), core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(C-I, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (C-II, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Apolipoproteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (C-III, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (C-reactive, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Complement receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (C5a, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CBF (core-binding factor), .alpha.1 and .alpha.2 and .beta., core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD100, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD101, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD103, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD107, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD108, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD109, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD110, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD111, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD112, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD113, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD114, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD115, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD116, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD117, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD118, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD119, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD12, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD120, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD121, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD123, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD124, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD125, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD126, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD127, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD128, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD129, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD130, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD131, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD132, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD133, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and

planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD134, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD135, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD136, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD137, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD138, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD139, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD140, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD141, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD142, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD143, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD144, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
(CD145, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD147, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD148, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD149, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD150, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD151, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD153, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD155, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD156, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD157, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD158, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD159, core group of disease-related genes; gene probes used for

genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD160, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD161, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD162, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD163, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD164, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD165, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Antigens**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD166, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD17, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD24, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD27, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD33, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (CD37, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD39, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Glycoproteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD40-L (antigen CD40 **ligand**), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD41, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD42, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD47, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD48, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD52, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **CD antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD53, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **CD antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD57, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **CD antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD60, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT CD antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD63, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD65, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT CD antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD66, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD67, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD70, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT CD **antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD72, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD73, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD76, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD77, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD78, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD79, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(CD83, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD84, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD85, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD89, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD90, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD91, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD92, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD93, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT CD antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD94, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD96, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CD97, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(CD98, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT **Antigens**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CD99, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CDX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)
- IT **Transcription factors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CREB (cAMP-responsive element-binding), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CREB-binding, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CRX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Colony stimulating factor receptors**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CSF-3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP11A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP11B1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP11B2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP17, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Gene, animal**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP19, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP1A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP1A2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP1B1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP21, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP24, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP27, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP27B1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening **and** planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP2A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP2A13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening **and** planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP2A3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(CYP2A6V2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(CYP2A7, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2B6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C18, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening **and** planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C19, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening **and** planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening **and** planning)

IT **Gene**, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2C9, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2D6, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2E1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2F1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP2J2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A5, core group of disease-related genes; gene probes used for

genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP3A7, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP4A11, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and **planning**)

IT **Gene**, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP4B1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP4F2, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP4F3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP51, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP5A1, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP7A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (CYP8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and **planning**)

IT Phagocyte
 (Chediak-Higashi syndrome, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Apolipoproteins
 Cyclins
 Immunoglobulins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT Steroid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DAX-1, core group of disease-related genes; gene probes used

for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DCC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DLX1 through DLX6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DMBT1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DMC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DMPK, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DNA damage-binding DDB1 and DDB2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Enzymes, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DNA helicases, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DNA-binding, zinc finger-contg., 198 and 2 and 3 and **HRX**, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (DSS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Hedgehog protein**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Desert, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare **screening** and planning)

IT **Dopamine receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(D1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening **and** planning)

IT Dopamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(D2, core group of disease-related genes; gene probes used for genetic profiling in healthcare **screening** and planning)

IT Dopamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(D3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Dopamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(D4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Dopamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(D5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Calbindins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(D9k, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Apolipoproteins
Cadherins
Immunoglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(E, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Selectins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(E-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EFMR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ELF-1 (Eph **ligand** family-1), core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ELK1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ELK2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cadherins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(EP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EPM2A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EP1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EP2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Prostanoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EP3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ERBAL2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ERCC5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ERG, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Endothelin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ETA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Endothelin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ETB, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT **Gene, animal**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EVII1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EWS, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare** screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (EYA1 and EYA2 and EYA3, core group of disease-related genes; gene probes used for genetic **profiling** in **healthcare screening** and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(EYCL3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cyclins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(F, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FABP (fatty acid-binding protein), core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FDGDY, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FKHL10 and FKHL14 and FKHL7, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FKHR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(FRAXA and FRAXE and FRAXF, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT Anemia (disease)
(Fanconi's, complementation group A and B, core group of disease-related **genes**; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Anemia (disease)
(Fanconi's, complementation group C, core group of disease-related genes; **gene** probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Flightless II, core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT Muscular dystrophy
(Fukuyama, gene FCMD, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(G/T mismatch, core group of disease-related genes; **gene** probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulins

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(G2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GABA transporter, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GADD45, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GDI (GDP dissocn. inhibitor), core group of disease-related genes; gene **probes** used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GLI1, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GLI2, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GLI3, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GNAO1 and GNB3 and GNG5 and GNAQ, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Galanin, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GluR1 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GluR2 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GluR3 subunit, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(GluR4 subunit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GluR5 subunit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GluR6 subunit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(GluR7 subunit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Goosecoid GSC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Gi1 (adenylate cyclase-inhibiting, 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Gi2 (adenylate cyclase-inhibiting, 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Gi3 (adenylate cyclase-inhibiting, 3), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT G **proteins** (guanine nucleotide-binding **proteins**)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Gs (adenylate cyclase-stimulating), GNAS1 and GNAS2 and GNAS3 and GNAS4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histones
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histones
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histones
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H3, core group of disease-related genes; gene probes used for genetic

- profiling** in healthcare screening and planning)
- IT Histones
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HAND1 and HAND2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Lipoprotein receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HDL, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HIF-1 (hypoxia-inducible factor 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HIF-2 (hypoxia-inducible factor 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HLA-B assocd. transcript 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HLA-DP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HLA-DQ, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HLA-DR, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HLX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HLXB9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT High-mobility group **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HMG-C and HMG-Y, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT High-mobility group **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (HMG1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT High-mobility group **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HMG2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HNF-3B (hepatocyte nuclear factor 3B), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HNF-4 (hepatocyte nuclear factor 4), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOX11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA12, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (HOXA8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXA9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXB2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXB3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXB6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXB7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXB9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXC13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXC4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXC9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXD1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXD10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXD13, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXD3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXD8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HOXD9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Blood-coagulation factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HRG (histidine-rich glycoprotein), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Heat-shock proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSP 60, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Heat-shock proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSP 70, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Heat-shock proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSP 90, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT DNA formation factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HSSB, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HTS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HVBS1 and HVBS6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Hairless, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Blood coagulation
(Hermansky-Pudlak syndrome, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA4, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxA7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxB8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxC8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxD12, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(HoxD4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histamine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(H3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Annexins
Synaptotagmin
Troponins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (I, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(I2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ICAM-1 (intercellular adhesion mol. 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ICAM-2 (intercellular adhesion mol. 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ICAM-3 (intercellular adhesion mol. 3), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ICCA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IGER and IGES, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Synaptotagmin
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(II, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IKBL, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IRS-1 (insulin receptor substrate 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IgE type II, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IgG type I, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IgG type IIA, core group of disease-related genes; gene probes used

- for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Ikaros, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Hedgehog **protein**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Indian, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (J protein, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Potassium channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (J1 and J11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Blood-group substances
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (K (Kell), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Keratins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (K7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (KAI1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
 (KIP2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Potassium channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Kv1 (potassium channel-forming, voltage-regulated, 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Selectins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (L-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (L-myc, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (L1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (L13A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal **proteins**

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(L17, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LAMP-1 (lysosome-assocd. membrane protein 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LAMP-2 (lysosome-assocd. membrane protein 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Lipoprotein receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LDL, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LH-releasing hormone, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LIM homeobox proteins 1 and 2 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LIM homeobox transcription factor 1.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LIM-domain only proteins 1 and 2 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LMP-2 (latent-infection membrane protein 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LPP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(LYDMA, LMP-7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Kidney, disease
(Lowe's syndrome, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
 (Lp(a), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Immunoglobulins
 Laminins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (M, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MAD homolog 2 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MADS box transcription-enhancer factor 2A and 2B and 2C and 2D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MAX-interacting protein 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MCC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MCP (membrane cofactor protein), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MHC (major histocompatibility complex), class I, A and B and C, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Histocompatibility antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MHC (major histocompatibility complex), class II, complementation group A and B and C and D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Mucins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MUC2 and MUC5AC and MUC6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (MUM1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Msh homoeobox homolog 1 and 2, core group of disease-related genes;

gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Muellerian-inhibiting hormone, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Dwarfism
(Mulibrey, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Myf-3 (myogenic factor 3), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Myf-4 (myogenic factor 4), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Myf-5 (myogenic factor 5), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Muscarinic receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(M5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cadherins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(N-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(N-CAM, N-CAM-2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (N-CAM, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Cell adhesion molecules
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (N-CAM-120, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (N-ras, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-E1 (nuclear factor erythroid 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Neurofilament **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-H, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Neurofilament **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-L, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Neurofilament **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-M, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NF-.kappa.B (nuclear factor .kappa.B), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NFATc (nuclear factor, activated T-cell, cytosolic), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NFATp (nuclear factor, activated T-cell, pre-existing), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Tachykinin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NK1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Tachykinin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NK2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Tachykinin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NK3, core group of disease-related genes; gene probes used for genetic

- profiling** in healthcare screening and planning)
- IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NMDA-binding, type 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glutamate receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NMDA-binding, type 2A and 2B and 2C and 2D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Atrial natriuretic peptide receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NPR-A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Atrial natriuretic peptide receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (NPR-B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Nervous system
 (Norrie's disease, gene NDP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Notch **ligand**-jagged 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Orthodenticle homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cadherins
 Selectins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Protamines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Protamines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PABP (poly(A)-binding protein), 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PAC7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PAC8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PAX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PAX3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PAX6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PECAM-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PHEX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PMP-22 (peripheral myelin protein, 22,000-mol.-wt.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(POU box, 1 and 3 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PROX1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(PVR (poliovirus receptor), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Patched homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Pax2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)
 (Prophet of Pit1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P2U, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P2X, 1 through 7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P2Y, 11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Purinoceptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (P2Y, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (R-binding, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RAG1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RAG2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoic acid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RAR-.alpha., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoic acid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RAR-.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Retinoic acid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RAR-.gamma., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT DNA formation factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RF-A (replication factor A), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT DNA formation factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RF-C (replication factor C), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Retinoid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RGR (retinal G protein coupled receptor), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RIGUI, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Retinoid X receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RXR.alpha., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Retinoid X receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RXR.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Retinoid X receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (RXR.gamma., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Rathke pouch homeobox, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Rb, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Blood-group substances
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Rh, CcEe antigens, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Rim, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (S-, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (S-100, A1 through A9 and B and P, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (S19, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
 (S4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (S6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Ribosomal **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (S9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SA homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SAA (serum amyloid A), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SAP (SLAM-assocd. protein), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SAP (serum amyloid, P), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycophosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SCP2 (hydroxy steroid-carrier protein 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Chemokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SDF-1.alpha. (stromal-derived factor-1.alpha.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Chemokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SDF-1.beta. (stromal-derived factor-1.beta.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SF-1 (steroidogenic factor 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Globulins, biological studies
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SHBG (sex hormone-binding globulin), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SLAM (signaling lymphocyte activation mol.), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Guanine nucleotide exchange factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOX10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOX11, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOX3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOX4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SOX9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SP-A, A1 and A2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SP-B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SP-C, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Surfactant **proteins** (pulmonary)
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SP-D, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SSEA-1 (stage-specific embryonic antigen 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SSTR1, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SSTR2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SSTR3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SSTR4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Somatostatin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SSTR5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (SSX1 and SSX2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ST3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ST8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (STAT1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (STAT2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (STAT3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (STAT4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (STAT5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Sal-like 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Slug, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Sry (sex-detg. region of chromosome Y), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Troponins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (T, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (T-BOX2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (T-BOX3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (T-BOX4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (T-BOX5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (T-BOX6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Leukemia
 (T-cell, acute, gene TAL1 and TAL2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TAPA-1 (target of antiproliferative antibody, 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TATA-binding protein-assocd., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TEL, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TKCR, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TRC8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TRP-1 (tyrosinase-related protein 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TSG101, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (TUPLE1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Tap1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Tap2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antigens
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Thy-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Tip-assocd., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Protein** receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Toll-like receptor 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Twist homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Usher syndrome gene USH2A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cell adhesion molecules
 Cell adhesion molecules
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (VCAM-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Vasopressin receptors

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(V1, 1A and 1B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Vasopressin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(V2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(WHSC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(WT1 (Wilms' tumor suppressor 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Wnt inhibitory factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Disease, animal
(Wolfram syndrome, gene WFS1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(X-specific transcript, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(XPA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(XPB, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(XPC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(XPD, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(XPE, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(XPF, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(XRCC9, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neuropeptide Y receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Y1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neuropeptide Y receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Y2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ZP1 (zona pellucida, 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ZP2 (zona pellucida, 2), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ZP3 (zona pellucida, 3), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Eye, disease
(achromotopsia gene ACHM2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(acidic amino acid-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(acylcarnitine-carnitine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(adaptins, .beta.3A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(adducins, .alpha. and .beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Brain, disease
(adrenoleukodystrophy, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Amino acids, biological studies

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(alkaptonuria, gene AKU, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Transport proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amino acid-transporting, gene SLC1A6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amyloid .beta.-binding APBB1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(amyloid .beta.-like, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(anion-exchanging proteins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Integrins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(antigens CD11b, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Integrins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(antigens CD11c, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Integrins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(antigens Mac-1 (macrophage 1), core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(apical, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(apoptosis-regulating, **ligand 1** and apoptosis-inducing factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(apoptosis-regulating, neuronal apoptosis-inhibitory, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Porins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(aquaporins, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (archaete-scute homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (aryl hydrocarbon receptor nuclear-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (aspartate, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (astrotactins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Nervous system
 (ataxia telangiectasia, genes ATD and ATM, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ataxins 1 and 2 and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (atrophin 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (attractins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (autoimmune regulator AIRE, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (axl, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (azoospermia factor1 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (band 4.1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phospholipoproteins

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(band 4.2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Phospholipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(band 7.2b, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bcl-2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bcr-c-abl, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bestrophins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bile acid-sodium-cotransporting, 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bile salt-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Biotechnology
(biochips, design of GENOSTIC genechip device; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(blue cone pigment, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Bone morphogenetic **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bone morphogenetic protein 5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurotrophic factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(brain-derived, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-Ha-ras, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-Ki-ras2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-R-ras, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-abl1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-abl2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-akt1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-akt2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-ems1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-erb, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-erb2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-erbA, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-ets-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-ets-2, core group of disease-related genes; gene probes used for

genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-fes, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-fgr, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-fos, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-fps, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-gro1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-gro2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-int1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-int3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-int4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-jun, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-kit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-lco, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-lyn, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-maf, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-masl, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-mcf2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-mel, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-mos, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-mpl, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-myb, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-myc, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ovc, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-raf, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ralb, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-rel, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(c-ros, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-sis, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-ski, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-sno, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-spil, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-src, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (c-tim, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (calcium, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (calcium-sodium-exchanging, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (cardiac-specific homeobox CSX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (carnitine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (cartilage oligomeric matrix, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (cartilage-hair hypoplasia, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT Phosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(caveolins, 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cellubrevins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ceroid lipofuscinosis neuronal 2-6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cytokine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chemokine, fusin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cholecystokinin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cholecystokinin B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Biliary tract
(cholestasis, intrahepatic, gene FIC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cholesterol ester-exchanging, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chondritin sulfate A-placental, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Eye, disease
(choroideremia, gene CHM, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurotrophic factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ciliary, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Atrial natriuretic peptide receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(clearance, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cleavage signal-1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Palate
(cleft, gene CPX, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (clk1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (cochlin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Phosphoproteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (cofilins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Protein receptors**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (collagen, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (collapsins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (contactins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Genetic methods**
 (core genes for design and manuf. of GENOSTIC genechip device; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **Hemochromatosis**
Niemann-Pick disease
 (core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT **ACTH receptors**
Albumins, biological studies
Amelogenins
Amyloid precursor proteins
Androgen receptors
Aromatic hydrocarbon receptors
Arrestins
Benzodiazepine receptors
 CD1 (antigen)
 CD14 (antigen)
 CD19 (antigen)
 CD2 (antigen)
 CD20 (antigen)
 CD22 (antigen)
 CD26 (antigen)
 CD28 (antigen)
 CD3 (antigen)
 CD34 (antigen)
 CD36 (antigen)
 CD38 (antigen)
 CD4 (antigen)
 CD40 (antigen)
 CD44 (antigen)
 CD45 (antigen)
 CD5 (antigen)
 CD59 (antigen)
 CD68 (antigen)
 CD69 (antigen)
 CD7 (antigen)

CD8 (antigen)
CD80 (antigen)
CD86 (antigen)
CFTR (cystic fibrosis transmembrane conductance regulator)
CTLA-4 (antigen)
Calcitonin gene-related peptide receptors
Calcitonin receptors
Calnexin
Calretinin.
Cannabinoid receptors
Carcinoembryonic antigen
Cell adhesion molecules
Ciliary neurotrophic factor
Clathrin
Clusterin
Corticosteroid receptors
Corticotropin releasing factor receptors
Cyclophilins
Desmins
Dynamin
Dyneins
Dystrophin
Elastins
Epidermal growth factor receptors
Erythropoietin receptors
FSH receptors
Fas antigen
Ferritins
Fibrinogens
Fibronectins
GTPase-activating **protein**
Gastrin-releasing peptide receptors
Gelsolin
Glucagon receptors
Glucagon-like peptide-1 receptors
Glucocorticoid receptors
Gonadotropin receptors
Gonadotropin-releasing hormone receptor
Growth factor receptors
Growth hormone receptors
Growth hormone-releasing hormone receptors
Hemoglobins
Hemopexins
Hepatocyte growth factor
Heregulins
Immunoglobulin receptors
Insulin receptors
Insulin-like growth factor I receptors
Insulin-like growth factor II receptors
Interleukin 1 receptor antagonist
Interleukin 1 receptors
Interleukin 10
Interleukin 11
Interleukin 13
Interleukin 1.alpha.
Interleukin 1.beta.
Interleukin 3
Interleukin 3 receptors
Interleukin 4
Interleukin 4 receptors
Interleukin 5
Interleukin 5 receptors
Interleukin 6
Interleukin 6 receptors
Interleukin 7
Interleukin 7 receptors

Interleukin 8
Interleukin 8 receptors
Interleukin 9
Intrinsic factors
Invariant chain (class II antigen)
LFA-3 (antigen)
Lactoferrins
Leptin receptors
Leukemia inhibitory factor
Leukemia inhibitory factor receptors
Leukosialin
Lymphotoxin
Macrophage colony-stimulating factor receptors
Macrophage inflammatory **protein 2**
Metallothioneins
Mineralocorticoid receptors
Moesins
Monocyte chemoattractant **protein-1**
Multidrug resistance **proteins**
Myelin P0 **protein**
Myelin basic **protein**
Myoglobins
Nerve growth factor receptors
Neurotensin receptors
Nicotinic receptors
Opioid receptors
Osteocalcins
Osteonectin
Osteopontin
Oxytocin receptors
Parathyroid hormone receptors
Parvalbumins
Pituitary adenylate cyclase-activating polypeptide receptor
Platelet-activating factor receptors
Platelet-derived growth factor receptors
Platelet-derived growth factors
Prion **proteins**
Progesterone receptors
Prolactin receptors
Proliferating cell nuclear antigen
Prostanoid receptors
Proteolipid **protein**
Radixin
Ras **proteins**
Rhodopsins
Ryanodine receptors
Secretin receptors
Stem cell factor
Sulfonylurea receptors
Synaptophysin
TCR .alpha..beta. (receptor)
Talin
Tau factor
Tenascins
Thrombin receptors
Thrombomodulin
Thrombospondins
Thromboxane receptors
Thyroglobulin
Thyrotropin receptors
Thyrotropin-releasing hormone receptors
Titins
Transcortins
Transferrin receptors
Transferrins
Transthyretin

Tubulins
 Tumor necrosis factor receptors
 Tumor necrosis factors
 Urokinase-type plasminogen activator receptors
 VIP receptors
 Vasopressin receptors
 Villin
 Vimentins
 Vinculin
 Vitamin D receptors
 neu (receptor)
 p53 (**protein**)
 .alpha.-Fetoproteins
 .alpha.1-Acid glycoprotein
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)

IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (corticosteroid-binding, core group of disease-related genes; gene
 probes used for genetic **profiling** in healthcare screening and
 planning)

IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cortisol, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cot, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (crk, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)

IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (crkl, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)

IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cubilins, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)

IT Ion channel
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cyclic nucleotide gated .alpha.3, core group of disease-related genes;
 gene probes used for genetic **profiling** in healthcare
 screening and planning)

IT Phosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cyclins C, core group of disease-related genes; gene probes used for
 genetic **profiling** in healthcare screening and planning)

IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (cysteine-rich, core group of disease-related genes; gene probes used
 for genetic **profiling** in healthcare screening and planning)

IT **Proteins, specific or class**

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cystinosins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(cytokine-suppressive antiinflammatory drug-binding 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(defender against cell death 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(deleted in azoospermia, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Mutation
(deletion, detection of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dentin sialophosphoprotein, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(deoxycorticosterone, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Allele frequency
Genetic polymorphism
(detection of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(diaphanous 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(diastrophic dysplasia sulfate-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Head
(disease, holoprosencephaly, gene HPE1 and HPE2 and HPE3 and HPE4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dopamine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (doublecortins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning).
- IT Enzymes, properties
RL: ANT (Analyte); PRP (Properties); ANST (Analytical study)
(drug-metabolizing, genetic variation in; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Mutation
(duplication, detection of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dynorphin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dysferlin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dyskerins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Nervous system
(dystonia, genes DYT1 and DYT3 and DYT6 and DYT7 and CSE, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dystrophin-assocd., 35,000-mol.-wt., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dystrophin-assocd., 43,000-mol.-wt., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(dystrophin-assocd., 50,000-mol.-wt., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Initiation factors (**protein** formation)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(eIF-4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ect2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Flavoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(electron-transporting flavoproteins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(emerins, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (empty spiracles homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (endobrevins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Heart
 (endocardium, fibroelastosis 2, gene EFE2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (endometrial bleeding-assocd. factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ephrin A and B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (erythroid kruppel-like factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (exotosin 1 and 2 and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Intestine, neoplasm
 (familial polyposis, clin. management of; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (fertilin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (folate, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (folate-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (follicular lymphoma variant translocation gene FVT1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins, specific or class**
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(frataxins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ganglioside GM2-activator, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gap junction-specific, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gastrointestinal hormone receptors
Peptide receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gastric inhibitory polypeptide, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gastrulation brain homoeobox 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene BCL1 and BCL4 through BCL10, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene BCL2-related A1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Cockayne's syndrome
(gene CKN1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Deafness
(gene DFNAS AND DDP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene ERCC1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene ERCC2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene ERCC3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene ERCC4, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene ERCC6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Kallmann syndrome
 (gene KAL1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD51, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD52, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD54, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD55, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene RAD57, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Sjogren's syndrome
 (gene SSA1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene TFE3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Wiskott-Aldrich syndrome
 (gene WASP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene WT2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene WT4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene bcl-3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (gene c-erbB4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene mutL, homolog, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene mutS, homolog 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Genome
Genotyping (method)
Health
Nucleic acid hybridization
Prognosis
Test kits
(gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); BPR (Biological process); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
(gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Antibodies
Probes (nucleic acid)
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene smoothened, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt5, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt7, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gene wnt8, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(geniospasm 1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT **Proteins**, specific or class

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gephyrins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurotrophic factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glial-derived neurotrophic factor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Neurotrophic factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glial-derived, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Chloride channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glioma CCC, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glucose phosphate-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glucose-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport **proteins**
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glucose/galactose-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glutamate-transporting, 1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glutamine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glycine-transporting, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glycophorin B, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glycophorin C, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glypican 3, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(green cone pigment, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(growth arrest-specific homeobox, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(growth factor receptor-bound protein 2, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(growth-related, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(guanylate cyclase-activating 1A, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT G proteins (guanine nucleotide-binding proteins)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(gusducin .alpha., core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Kinesins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(heavy and light chains, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(hepatic 1 and 2, core group of disease-related genes; gene probes used **for genetic profiling** in healthcare screening and planning)
- IT Growth factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(heregulin, erbB-3, core group of disease-related genes; gene probes **used for** genetic profiling in healthcare screening and planning)
- IT Kininogens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(high-mol.-wt., core group of disease-related genes; gene probes used **for genetic profiling** in healthcare **screening** and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(hsl, core group of disease-related genes; gene probes used **for**

- genetic** profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hs2, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (huntingtin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hydrogen ion-sodium-exchanging, 1-5, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hydrogen ion-transporting, VPP1 and VPP3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Embryo, animal
 (hypohidrotic ectodermal dysplasia, gene ED1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Mutation
 (insertion, detection of; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transcription factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (insulin promoter factor 1, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (int-2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT CD antigens
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (integrin .alpha.7, core group of disease-related genes; gene probes used **for genetic** profiling in healthcare screening and planning)
- IT CD antigens
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (integrin .beta.5, core group of disease-related genes; **gene** probes **used** for genetic profiling in healthcare screening and planning)
- IT CD antigens
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (integrin .beta.7, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interferon regulatory factor 4, core group of disease-related

- genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Interleukin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 10 receptors, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Interleukin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 11 receptors, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Interleukin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 13 receptors, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Interleukin receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (interleukin 9 receptors, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Lipoprotein receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (intermediate-d. lipoprotein receptors, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Phosphoproteins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (kinectins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (lamins, A/C, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (latent transforming growth factor-.beta.-binding 2, core **group** of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (leukocyte-specific transcript 1, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Leukotriene receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (leukotriene B4, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Leukotriene receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (leukotriene D4, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Immunoglobulins

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(light chains, .kappa. const. and variable regions, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Muscular dystrophy
(limb-girdle, Genes LHX1 and LHX2 and LHX3 and LHX4, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(limbic-assocd. membrane, core group of disease-related **genes**; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Annexins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(lipocortins, 1, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Potassium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(long QT-type 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(loricrins, core group of disease-related **genes**; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Lipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(low-d., 1, core group of disease-related **genes**; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Lipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(low-d., 2, core group of disease-related **genes**; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(lpsa, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(lunatic fringe secreted, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(lymphoblastic leukemia-derived sequence 1, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(lymphoid enhancer-binding factor, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Lymphokine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (lymphotoxin, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Cytokine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (macrophage inflammatory protein 1.alpha. receptors, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Cytokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (macrophage inflammatory protein, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Cytokine receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (macrophage inflammatory protein-2, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Cytokines
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (macrophage-activating factor, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Eye, disease
 (macular dystrophy, gene VMD1, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (malignant proliferation MPE, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (manic fringe secreted, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Agglutinins and Lectins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (mannose-binding, 1 and 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (mannose-binding, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (marenostriins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (mdm-2, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Pituitary hormone receptors

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(melanocortin 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Pituitary hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(melanocortin 4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Pituitary hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(melanocortin, melanocortin 2 receptors, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(menin, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mesoderm-specific transcript, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(met, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(microphthalmia-assocd., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(microtubule-assocd., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(midline 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mismatch repair gene PMS1 and PMS2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Mutation
(missense, detection of; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(monoamine-transporting, 1 and 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transport proteins

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(monocarboxylic acid-transporting, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Lipids, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mucolipids, metabolic disorders, mucolipidosis, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(mycilins, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Myeloproliferative disorders
(myelodysplasia, gene MDS1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Lymphokines
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myeloid leukemia factor-1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myomesins, 1 and 2, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Vision
(myopia, genes MYP1 and MYP2, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myosin-binding C, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(myotubularins, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(natural resistance-assocd. macrophage protein 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(needins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Kidney, disease
(nephronophthisis 1 and 2, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neural retina-specific, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and

- planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neurexins, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Growth factors, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neurite extension factors, 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Growth inhibitors, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neurite growth inhibitors, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Protein receptors
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neuronal mol.-1, core group of disease-related genes; **gene** probes used **for** genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neurotransmitter-transporting, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neutral amino-acid-transporting, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(neutrophil cystolic factor 1 and 2, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(niacin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(nibrins, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(nodal, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(noggin, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Calcium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (non-voltage gated 1 .alpha. and .beta. and .gamma. and **type**
IV.alpha. and .beta., core group of disease-related genes; gene probes
used for genetic profiling in healthcare screening and planning)
- IT Mutation
(nonsense, detection of; gene probes used for genetic profiling in
healthcare **screening** and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(norepinephrine-transporting, core group of disease-related genes; gene
probes used **for** genetic profiling in healthcare screening and
planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(nuclear mitotic app. protein 1, core group of disease-**related**
genes; gene probes used for genetic profiling in healthcare screening
and planning)
- IT Albinism
(ocular, type 1, gene OAl, core group of disease-related genes; gene
probes used for **genetic** profiling in healthcare screening and
planning)
- IT Albinism
(oculocutaneous, gene OCA2, core group of disease-related genes; gene
probes used for **genetic** profiling in healthcare screening and
planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(oligophrenin-1, core group of disease-related genes; gene probes used
for genetic profiling in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(oncostatin M, core group of disease-related genes; gene probes used
for genetic profiling in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(orexin 1 and 2, core group of disease-related genes; gene probes
used for genetic profiling in healthcare screening and
planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(org. anion-transporting, core group of disease-related genes; gene
probes used for genetic profiling in healthcare screening and
planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(otoferlins, core group of disease-related genes; gene **probes**
used for genetic profiling in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(p16INK4, core group of disease-related genes; gene probes **used**
for genetic profiling in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
(p21CIP1/WAF1, core group of disease-related genes; gene **probes**
used for genetic profiling in healthcare screening and planning)
- IT Cyclin dependent kinase inhibitors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)

- (p27KIP1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(p54, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(paired box homeodomain 2 and 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pancreatic lipase-related 1 and 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Paralysis
(paraplegia, gene SPG7, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(parkins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(peanut-like 1, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pendrins, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(peptide-transporting, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(peripherins (eye rod outer segment), core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(peripherins (neuronal intermediate filament), core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(peroxisomal membrane protein 3, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(peroxisome 1, core group of disease-related genes; gene probes used

- for **genetic** profiling in healthcare screening and planning)
- IT Peroxisome proliferators
(peroxisome biogenesis factors 1 and 6 and 7, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(phosphatase and tensin homolog, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(phosphatidylinositol transfer protein, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Glycophospholipids
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(phosphatidylinositol-contg., core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pim-1, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(plakophilin 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(platelet glycoprotein 1b.alpha. and 1b.beta. and 1b.**delta**. and IX and V, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(plectins, 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Growth factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pleiotrophin, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Kidney, disease
(polycystic, gene PKHD1, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(polycystins, 1 and 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(postsynaptic d.-95, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Transcription factors

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pre-B-cell leukemia 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Disease, animal
(prognosis and management of; gene probes used for genetic profiling in healthcare **screening** and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(prohibitins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(proline-rich, BstNI subfamily 1 and 3 and 4, core **group** of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Leukemia
(promyelocytic, gene PML, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(prosaposins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pti-lsea, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(pvt-1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(r-myc, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(rabphilins, 3A, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(rabphilins, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(radical fringe secreted, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Mutation
(rearrangement, detection of; gene probes used for genetic profiling in healthcare screening and **planning**)
- IT Heregulins

- RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(receptors, ErbB-3, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Interleukin 10
Interleukin 11
Interleukin 12
Interleukin 13
Interleukin 9
Pleiotrophins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(**receptors**, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, **specific** or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(red cone pigment, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ret, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Eye, disease
(retinitis pigmentosa, genes RP1 and RP2 and RP3 and RP6, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(retinol-binding, 1 and 2 and 4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Eye, disease
(retinoschisis gene RS, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Brain, neoplasm
(rhabdoid, gene SMARCB1, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(rod outer membrane segment membrane protein 1, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(semaphorin A4 and A5 and D and E and **F** and W, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(serotonin-transporting, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Immunodeficiency
(severe combined, gene SCIDA, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(short stature homeobox, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(sine oculis homeobox homolog 1 and 2 and 5, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Ribonucleoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(small nuclear RNA-contg., N, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(smoothelins, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(solute carrier family, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Hedgehog protein
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(sonic, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(sorcins, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(sperm adhesion mol., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Nervous system
(spinocerebellar ataxia, gene SCA8, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Mutation
(splice site, detection of; gene probes used for genetic profiling in healthcare screening **and** planning)
- IT Enzymes, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(stratum corneum chymotryptic, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(surfeit 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

- (survival of motor neuron 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synapsins II, 2a and 2b, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synapsins, I, 1a and 1b, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptic vesicle amine-transporting, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptic vesicle protein 2, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptogyrins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(synaptosomal-assocd., 25,000-mol.-wt., core **group** of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Syndecans
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(syndecan-2, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)
- IT Syndecans
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(syndecan-4, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Syndecans
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses).
(syndecans-1, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(tc21, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(termination 1 and 2 and 3, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
(testis-specific protein Y, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thyroid receptor auxiliary, core group of disease-related genes; 1gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thyrotroph embryonic factor, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Globulins, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thyroxine-binding, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT G proteins (guanine nucleotide-binding proteins)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(transducing GNAT1 and GNAT2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(translationally-controlled tumor protein 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(treacle, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(tremor, essential, 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(triglyceride-transferring, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Peptides, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(trypsinogen-activating, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(tubby-like protein 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Brain, disease
(tuberous sclerosis, gene TSC1 and TSC2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

- screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 4, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 5, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor necrosis factor receptor-assocd. factor 6, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor suppressor, DRA, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor-assocd. p63, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tumor-assocd. p73, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Complement receptors
 Fibroblast growth factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type 1, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Complement receptors
 Fibroblast growth factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

- IT Fibroblast growth factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type 3, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type I, .alpha.1 and .alpha.2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type II, .alpha.1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Activin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type IIB, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type III, .alpha.1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type IV, .alpha.1 through .alpha.6, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type IX, .alpha.2 and .alpha.3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type V, .alpha.1 and .alpha.2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type VI, .alpha.1 and .alpha.2 and .alpha.3, **core** group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type VII, .alpha.1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type X, .alpha.1, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Collagens, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(type XVII, .alpha.1, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)

- planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ubiquitin fusion degeneration 1-like, core group of **disease**-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Enzymes, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(ubiquitin-activating, core group of disease-related genes; **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(undulins, 1, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Peptides, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(vasoinhibitory, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(vavtrk, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Lipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(very-low-d., core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Calcium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(voltage-dependent, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Potassium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(voltage-gated E1 and Q1 and Q2 and Q3 and **Q4**, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Calcium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(voltage-gated type 1.beta., core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Nervous system
(von Hippel-Lindau disease, **gene VHL**, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(winged helix nude, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)
- IT Skin, disease
(xeroderma pigmentosum I, core group of disease-related genes; **gene probes** used for genetic profiling in healthcare screening and planning)

- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(yes, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(yuasa, core group of disease-related genes; gene probes used for genetic profiling in **healthcare** screening and planning)
- IT Adhesins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(zonadhesins, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT Opioid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.kappa.-opioid, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT GABA receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha. and .beta. and .gamma. subunits, core group of disease-related **genes**; gene probes used for genetic profiling in healthcare screening and planning)
- IT Fibrinogens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha. and .beta. and .gamma., core group of disease-related **gene** probes used for genetic profiling in healthcare screening and planning)
- IT Glycine receptors
Granulocyte-macrophage colony-stimulating factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha. and .beta., core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Catenins
Interferons
Interleukin 8 receptors
Peroxisome proliferator-activated receptors
Thyroid hormone receptors
Vitronectin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha., core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Actinins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.-, 2 and 3, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Actins
Spectrins
Transforming growth factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.alpha.-, core group of disease-related genes; gene probes **used for genetic profiling** in healthcare screening and planning)
- IT Thalassemia
(.alpha.-, gene ATRX, core group of disease-related genes; gene probes

- used for genetic **profiling** in healthcare screening and planning)
- IT Interleukin 2 receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.-chain, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.-tectorin, core group of disease-related genes; gene **probes** used for genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.-tocopherol-binding, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Haptoglobin
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.1 and .alpha.2, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.8, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.9, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Crystallins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.A-, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Crystallins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.B-, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Adrenoceptors
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.1, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Adrenoceptors
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.2, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Macroglobulins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.2-, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

- (Biological study); USES (Uses)
 (.alpha.2-macroglobulin, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.3, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.4, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.5, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha.6, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)
- IT Interferons
 Interleukin 8 receptors
 Thyroid hormone receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta., core group of disease-related genes; gene probes **used** for **genetic profiling** in healthcare screening and planning)
- IT Actins
 Catenins
 Spectrins
 Transforming growth factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-, core group of disease-related genes; gene probes **used** for **genetic profiling** in healthcare screening and planning)
- IT Interleukin 2 receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-chain, core group of disease-related genes; gene probes used **for** genetic profiling in healthcare screening and planning)
- IT Proteins, specific or class
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-galactosidase-protective, core group of disease-related genes; gene probes used for **genetic profiling** in healthcare screening and planning)
- IT Transforming growth factors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-induced, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)
- IT Transforming growth factor receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-transforming growth factor type II, core group of **disease-related** genes; gene probes used for genetic profiling in healthcare screening and planning)
- IT Adrenoceptors
 Integrins
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.beta.1, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Adrenoceptors
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.beta.2, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Microglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.beta.2-, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Adrenoceptors
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.beta.3, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.beta.4, core group of disease-related genes; gene probes used for **genetic** profiling in healthcare screening and planning)

IT Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.beta.6, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Catenins
Interferons
Peroxisome proliferator-activated receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma., core group of disease-related genes; gene probes **used** for genetic **profiling** in healthcare screening and planning)

IT Crystallins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Actins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-actins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Interleukin 2 receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-chain, core group of disease-related genes; gene probes **used** for genetic profiling in healthcare screening and planning)

IT Interferon receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.gamma.-interferon, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT Opioid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(.delta.-opioid, core group of disease-related genes; gene probes used

- for genetic **profiling** in healthcare screening and planning)
- IT Opioid receptors
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.mu.-opioid, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9032-64-8, Nucleotide pyrophosphatase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1 and 2 and 3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 80146-85-6, Transglutaminase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1 and 2 and 4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9002-08-8, Trypsinogen 9004-06-2, Elastase 39391-18-9 59536-73-1, Phosphomannomutase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1 and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9002-72-6, Somatotropin 9023-88-5, Phosphomannose isomerase 9031-68-9, Galactosyltransferase 37205-61-1, Protease inhibitor 152166-53-5, Neurotrophic factor receptor kinase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9038-14-6, Flavin-contg. monooxygenase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1-4, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 76901-00-3, Platelet-activating factor acetylhydrolase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (1B and 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 56626-18-7, Fucosyltransferase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (2 and 3 and 6, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 39391-18-9, Prostaglandin endoperoxide synthase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9035-37-4, Cytochrome b
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (245.alpha. and 245.beta., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9001-01-8, Kallikrein
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (3, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9001-60-9, Lactate dehydrogenase 9001-66-5, Monoamine oxidase 9027-52-5, Hexosaminidase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A and B, core group of disease-related genes; gene probes used for

- genetic **profiling** in healthcare screening and planning)
- IT 9031-96-3, Peptidase A
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (A and C and E and S, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9033-07-2, Glycosyltransferase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (ABO blood group, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9002-69-1, Relaxin
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (H1 and H2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 86480-67-3, Ubiquitin C-terminal hydrolase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (L1, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 213903-53-8, Cryptochrome 1
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (and cryptochrome 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 50-56-6, Oxytocin, biological studies 70-18-8, Glutathione, biological studies 113-79-1 1393-25-5, Secretin 9000-81-1, Acetylcholinesterase 9000-83-3, Complex V (mitochondrial electron transport) 9000-86-6, Alanine aminotransferase 9000-90-2, .alpha.-Amylase 9000-92-4, Amylase 9000-94-6, Antithrombin III 9000-96-8, Arginase 9000-97-9 9001-03-0, Carbonic anhydrase 9001-05-2, Catalase 9001-06-3, Chitotriosidase 9001-08-5, Butyrylcholinesterase 9001-10-9, Pepsinogen 9001-12-1, Matrix metalloproteinase 1 9001-15-4, Creatine kinase 9001-16-5, Complex IV (mitochondrial electron transport) 9001-18-7, Dihydrolipoyl dehydrogenase 9001-24-5, Blood-coagulation factor V 9001-25-6, Blood-coagulation factor VII 9001-27-8, Blood-coagulation factor VIII 9001-28-9, Blood-coagulation factor IX 9001-29-0, Blood-coagulation factor X 9001-30-3, Blood-coagulation factor XII 9001-36-9, Glucokinase 9001-39-2, Glucose 6 phosphatase 9001-40-5, Glucose 6 phosphate dehydrogenase 9001-41-6, Phosphoglucose isomerase 9001-42-7, .alpha.-Glucosidase 9001-45-0, .beta.-Glucuronidase 9001-47-2, Glutaminase 9001-48-3, Glutathione reductase 9001-50-7, Glyceraldehyde 3 phosphate dehydrogenase 9001-51-8, Hexokinase 9001-52-9, Fructose diphosphatase 9001-54-1, Hyaluronidase 9001-58-5, Isocitrate dehydrogenase 9001-59-6, Pyruvate kinase 9001-63-2, Lysozyme 9001-64-3, Malate dehydrogenase 9001-67-6, Neuraminidase 9001-69-8, Ornithine transcarbamoylase 9001-75-6, Pepsin 9001-80-3, Phosphofructokinase 9001-81-4, Phosphoglucosmutase 9001-83-6, Phosphoglycerate kinase 9001-84-7, Phospholipase A2 9001-86-9, Phospholipase C 9001-88-1, Phosphorylase kinase 9001-91-6, Plasminogen 9001-97-2, Glycogen branching enzyme 9002-02-2, Succinate dehydrogenase 9002-03-3, Dihydrofolate reductase 9002-10-2, Tyrosinase 9002-12-4, Urate oxidase 9002-61-3, Chorionic gonadotrophin 9002-62-4, Prolactin, biological studies 9002-64-6, Parathyroid hormone 9002-68-0, FSH 9002-71-5, TSH 9002-76-0, Gastrin 9003-99-0, Eosinophil peroxidase 9004-02-8, Lipoprotein lipase 9004-10-8, Insulin, biological studies 9007-43-6, Cytochrome c, biological studies 9011-97-6, Cholecystokinin 9012-25-3, Catechol-O-methyltransferase 9012-31-1, Acetyl-CoA synthase 9012-39-9, ATP sulfurylase 9012-42-4, Adenylate cyclase 9012-47-9, Amylo-1,6-glucosidase 9012-49-1, Aspartate transcarbamoylase 9012-52-6, Methionine adenosyltransferase 9012-56-0, Amidase 9012-78-6, Choline acetyltransferase 9012-90-2, DNA polymerase 9012-93-5, Ferrochelataase 9012-96-8, Cystathionase 9013-02-9,

Adenylate kinase 9013-08-5, Phosphoenolpyruvate carboxykinase
 9013-18-7, Long chain acyl coa synthetase 9013-38-1, Dopamine
 .beta.-hydroxylase 9013-55-2, Blood-coagulation factor XI 9013-56-3,
 Blood-coagulation factor XIII 9013-66-5, Glutathione peroxidase
 9013-75-6, Histidase 9014-08-8, Enolase 9014-19-1, Pyruvate
 carboxylase 9014-24-8, RNA polymerase 9014-36-2, Succinate thiokinase
 9014-42-0, Thrombopoietin 9014-48-6, Transketolase 9014-51-1,
 Tryptophan 2,3-dioxygenase 9014-55-5, Tyrosine aminotransferase
 9014-56-6, Glycogen synthase 9014-74-8, Enterokinase 9015-67-2,
 Alanine-glyoxylate aminotransferase 9015-71-8, ACTH-releasing hormone
 9015-81-0, 17.beta.-Hydroxy steroid dehydrogenase 9015-82-1, Angiotensin
 converting enzyme 9015-83-2, Phosphoribosyl pyrophosphate synthetase
 9015-85-4, DNA ligase 9015-94-5, Renin, biological studies 9016-11-9,
 Galactose 1-phosphate uridylyltransferase 9016-12-0 9016-17-5,
 Arylsulfatase 9016-18-6, Carboxylesterase 9023-26-1, CoA transferase
 9023-56-7, CTP synthetase 9023-58-9, Arginosuccinate synthetase
 9023-62-5, Glutathione synthetase 9023-64-7, Glutamate-cysteine ligase
 9023-69-2, Asparagine synthetase 9023-70-5, Glutamine synthase
 9023-78-3, Triose phosphate isomerase 9023-90-9, Methylmalonyl-CoA
 mutase 9023-91-0, Phosphoglycerate mutase 9023-93-2, Acetyl-CoA
 carboxylase 9023-94-3, Propionyl-CoA carboxylase 9023-99-8,
 Cystathionine .beta.-synthase 9024-25-3, Aconitase 9024-52-6
 9024-58-2, Glutamate decarboxylase 9024-70-8, Uroporphyrinogen
 decarboxylase 9024-78-6, Kynureninase 9024-93-5, Dihydroorotase
 9024-99-1, Malonyl-CoA decarboxylase 9025-06-3, Cytidine deaminase
 9025-10-9, AMP deaminase 9025-15-4, Biotinidase 9025-26-7, Cathepsin D
 9025-32-5 9025-35-8, .alpha.-Galactosidase 9025-42-7, .alpha.-
Mannosidase 9025-43-8, .beta.-**Mannosidase** 9025-52-9,
 Trehalase 9025-54-1, Adenosylhomocysteinase 9025-62-1, Steroid
 sulfatase 9025-90-5, Hydroxyacyl glutathione hydrolase 9026-00-0,
 Cholesterol ester hydrolase 9026-22-6, UDP-glucose pyrophosphorylase
 9026-23-7, Carbamoylphosphate synthetase 9026-51-1, Nucleoside
 diphosphate kinase 9026-59-9, Guanylate kinase 9026-89-5,
 Dihydropyrimidine dehydrogenase 9026-93-1, Adenosine deaminase
 9027-03-6, Complex III (mitochondrial electron transport) 9027-13-8,
 Enoyl-CoA hydratase 9027-21-8, Carnosinase 9027-27-4,
 .beta.-Ureidopropionase 9027-33-2, N-Acetyltransferase 9027-34-3
 9027-43-4, 3-Oxoacid CoA transferase 9027-44-5, HMG-CoA synthase
 9027-46-7, Thiolase II 9027-67-2, Terminal deoxynucleotidyltransferase
 9027-80-9, Adenine phosphoribosyltransferase 9027-81-0, Adenylosuccinate
 lyase 9027-88-7, Short-chain acyl CoA dehydrogenase 9027-89-8,
 Galactocerebrosidase 9027-96-7, Citrate synthase 9028-04-0, Complex I
 (electron transport chain) 9028-06-2 9028-11-9, Complex II
 (mitochondrial electron transport) 9028-16-4, Xylitol dehydrogenase
 9028-21-1, Sorbitol dehydrogenase 9028-31-3, Aldose reductase
 9028-35-7, HMG-CoA reductase 9028-38-0, D-.beta.-Hydroxybutyrate
 dehydrogenase 9028-41-5, .beta.-Ketoacyl reductase 9028-86-8, Aldehyde
 dehydrogenase 9028-93-7, IMP dehydrogenase 9028-95-9, Succinic
 semialdehyde dehydrogenase 9029-12-3, Glutamate dehydrogenase
 9029-38-3, Sulfite oxidase 9029-49-6, Homogentisate 1,2-dioxygenase
 9029-60-1, Lipoygenase 9029-61-2, Kynurenine hydroxylase 9029-72-5,
 4-Hydroxyphenylpyruvate dioxygenase 9029-73-6, Phenylalanine hydroxylase
 9029-75-8, Guanidinoacetate methyltransferase 9029-83-8, Serine
 hydroxymethyltransferase 9029-84-9, Glycine Formiminotransferase
 9029-87-2, Malonyl-CoA carboxyltransferase 9029-97-4, Acetyl CoA
 acyltransferase 9030-08-4, UDP-Glucuronosyltransferase 9030-21-1,
 Purine nucleoside phosphorylase 9030-42-6 9030-50-6, Ketohexokinase
 9030-53-9, Galactokinase 9030-66-4, Glycerol kinase 9030-74-4,
 Dihydropyrimidinase 9030-83-5, HMG-CoA lyase 9030-87-9,
 15-Hydroxyprostaglandin dehydrogenase 9031-02-1, .alpha.-Ketoglutarate
 dehydrogenase 9031-11-2, .beta.-Galactosidase 9031-14-5,
 Lecithin-cholesterol acyltransferase 9031-28-1, Thyroid peroxidase
 9031-36-1, Steroid .DELTA.-isomerase 9031-37-2, Ceruloplasmin
 9031-54-3, Sphingomyelinase 9031-61-2, Thymidylate synthase 9031-72-5,
 Alcohol dehydrogenase 9031-82-7, Glutamine phosphoribosylpyrophosphate
 amidotransferase 9031-86-1, Aspartoacylase 9031-98-5, Carboxypeptidase

9032-02-4 9032-22-8, NADPH oxidase 9032-28-4, Dihydrolipoyl succinyltransferase 9032-29-5 9032-59-1, Fumarylacetoacetase 9032-76-2, Dehydroepiandrosterone sulfotransferase 9032-88-6, Fumarase 9032-89-7, UDP-galactose-4-epimerase 9034-39-3, Growth hormone releasing hormone 9034-40-6, LH-releasing hormone 9035-34-1, Cytochrome a 9035-39-6, Cytochrome b5 9035-51-2, Cytochrome P 450, biological studies 9035-54-5, Placental lactogen 9035-58-9, Blood-coagulation factor III 9035-74-9, Glycogen phosphorylase 9035-75-0, Chymotrypsinogen 9035-81-8, Trypsin inhibitor 9036-20-8 9036-22-0, Tyrosine hydroxylase 9036-23-1, UMP kinase 9036-37-7, .delta.-Aminolevulinate dehydrase 9036-43-5, Steroid .DELTA.4-5.alpha.-reductase 9037-14-3, .delta.-Aminolevulinate synthase 9037-21-2, Tryptophan hydroxylase 9037-42-7, DNA methyltransferase 9037-65-4, .alpha.-L-Fucosidase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT 9037-67-6, GABA transaminase 9037-68-7, Phenylethanolamine methyltransferase 9039-06-9, Cytochrome P 450 reductase 9039-45-6, Deoxycytidine kinase 9040-57-7, Ribonucleotide reductase 9041-46-7, 11.beta.-Hydroxysteroid dehydrogenase 9041-92-3, .alpha.1-Antitrypsin 9042-64-2, DOPA decarboxylase 9044-50-2, Steroid 17-20 desmolase 9044-85-3, 3.beta.-Hydroxysteroid dehydrogenase 9044-86-4, Dehydratase 9046-27-9, .gamma.-Glutamyltransferase 9047-22-7, Cathepsin B 9047-64-7, Ribonucleoside diphosphate reductase 9048-63-9, Epoxide hydrolase 9050-70-8, Proline dehydrogenase 9054-54-0, Transacylase 9054-63-1, Microsomal aminopeptidase 9054-65-3, Branched chain aminotransferase 9054-75-5, Guanylate cyclase 9054-84-6, Xanthine dehydrogenase 9054-89-1, Superoxide dismutase 9055-02-1, Prekallikrein 9055-67-8, Poly(ADP-ribose) synthetase 9056-26-2, Peptidase B 9059-22-7, Heme oxygenase 9059-25-0, Lysyl hydroxylase 9060-09-7, Uteroglobins 9061-61-4, Nerve growth factor 9067-97-4, .DELTA.4-3-Oxosteroid 5.beta.-reductase 9068-41-1, Carnitine palmitoyltransferase 9068-44-4, Procollagen peptidase 9068-57-9, Acrosin 9068-75-1, Glucagon synthetase 9073-56-7, .alpha.-L-Iduronidase 9074-10-6, Biliverdin reductase 9074-11-7, Dihydropteridine reductase 9074-91-3, Porphobilinogen deaminase 9075-24-5, Aspartylglucosaminidase 9075-65-4, Glycerophosphate dehydrogenase 9075-81-4 9076-84-0, Coproporphyrinogen oxidase 9077-03-6, 17-Ketosteroid reductase 9079-67-8, NADH dehydrogenase 9080-21-1, 7-Dehydrocholesterol reductase 9081-34-9, Steroid 5.alpha.-reductase 9082-57-9, Inosine triphosphatase 9082-72-8, Branched chain keto acid dehydrogenase 11002-13-4, Angiotensinogen (protein renin substrate) 11016-39-0, Properdin 11096-26-7, Erythropoietin 12651-27-3, Transcobalamin 1 12651-28-4, Transcobalamin 2 24305-27-9, Thyrotropin releasing hormone 37184-63-7, Inositol monophosphatase 37211-69-1, 2,3-Bisphosphoglycerate mutase 37213-56-2, Complement factor D 37221-79-7, Vasoactive intestinal polypeptide 37228-64-1, Acid .beta.-glucosidase 37233-48-0, Carbamoylphosphate synthetase 37255-32-6, Dihydrodiol dehydrogenase 37255-38-2, Glutaryl-CoA dehydrogenase 37255-40-6, Glycine dehydrogenase 37256-36-3, NADH dehydrogenase (ubiquinone) 37257-08-2, Aminomethyltransferase 37257-17-3, Malonyl-CoA transacylase 37257-19-5, Dihydroxyacetone phosphate acyltransferase 37270-64-7, Acyl-CoA thioesterase 37274-61-6, Isovaleryl-CoA dehydrogenase 37277-84-2, Cobalamin adenosyltransferase 37288-39-4, Sucrase 37288-40-7, .alpha.-Acetylglucosaminidase 37288-66-7, Aminopeptidase P 37289-19-3, GTP cyclohydrolase 37289-34-2 37289-41-1, Heparin sulfamidase 37290-90-7, Methionine synthase 37340-55-9, Uroporphyrinogen III synthase 39346-44-6, Inter-.alpha.-trypsin inhibitor 39362-14-6, Prolactin-releasing hormone 39379-15-2, Neurotensin 39419-81-3, Holocarboxylase synthetase 50812-31-2, Cyclic nucleotide phosphodiesterase 50812-37-8, Glutathione S-transferase 50936-59-9, Iduronate 2-sulfatase 51110-01-1, Somatostatin 52906-92-0, Motilin 53096-17-6, Bleomycin hydrolase 53167-91-2, NADPH-Flavin nucleotide dehydrogenase 53230-14-1, Preprothrombin 53986-32-6,

Protoporphyrinogen oxidase 54004-64-7, Rhodopsin kinase 55126-92-6,
 Colipase 55576-43-7, Dextrinase 56626-15-4, C3 Convertase
 56645-49-9, Cathepsin G 58319-92-9, ADP-ribosyltransferase 59299-00-2,
 Acetylgalactosamine 6 sulfatase 59392-49-3, Gastric inhibitory
 polypeptide 59536-74-2, Long-chain acyl CoA dehydrogenase 59828-56-7,
 Endo-.beta.-glucuronidase 59977-51-4, Prostaglandin endoperoxide
 convertase 60202-16-6, Protein C 60267-61-0, Ubiquitin 60320-99-2,
 Acetylglucosamine 6 sulfatase 60616-82-2, Cathepsin L 60748-73-4,
 Cathepsin H 60832-04-4, Thromboxane A2 synthetase 61116-24-3,
 Preproinsulin 61512-21-8, Thymosin 61811-29-8, Apurinic endonuclease
 62031-54-3, Fibroblast growth factor 62213-29-0, Enoyl-CoA isomerase
 62229-50-9, Epidermal growth factor 63340-72-7, Thymic humoral factor
 64885-96-7, DNA primase 65802-85-9, Prostaglandin D synthase
 65802-86-0, Prostacyclin synthase 65979-40-0, Bile acid CoA amino acid
 N-acyltransferase 66796-54-1, Proopiomelanocortin 67339-09-7,
 Thiopurine S-methyltransferase 67763-96-6, Insulin-like growth factor 1
 67763-97-7, Insulin-like growth factor II 68651-94-5 70356-40-0, DNA
 glycosylase 70712-46-8, Iodothyronine 5'-deiodinase 71822-25-8,
 5,10-Methylenetetrahydrofolate reductase 71965-46-3, Cathepsin S
 73508-07-3, Molybdenum cofactor 73562-26-2 74506-38-0, Medium-chain
 acyl CoA dehydrogenase **74812-49-0, Ubiquitin**
protein ligase 74870-74-9, UMP synthetase
 75432-63-2, Preproglucagon 75922-89-3, Pyrroline-5-carboxylate
 synthetase 77271-19-3 78689-77-7, 6-Phosphofructo-2-kinase
 78783-52-5, .beta.1,3-Galactosyltransferase 78990-62-2, Calpain
 79955-99-0, Matrix metalloproteinase 3 80043-53-4, Gastrin releasing
 peptide 80295-33-6, Complement C1q 80295-34-7, Complement C1r
 80295-35-8, Complement C1s 80295-38-1, C1 Inhibitor 80295-40-5,
 Complement C2 80295-41-6, Complement C3 80295-49-4, Complement C4A
 80295-50-7, Complement C4B 80295-53-0, Complement C5 80295-56-3,
 Complement C6 80295-57-4, Complement C7 80295-58-5, Complement C8
 80295-59-6, Complement C9 80295-65-4, Complement factor H 80295-66-5,
 Complement factor I 80497-65-0, Antimullerian Hormone 81181-72-8,
 .gamma.-Glutamyl carboxylase 81604-65-1, Heparin cofactor ii
 81627-83-0, Colony-stimulating factor 1 82707-54-8, Neutral
 endopeptidase 82785-45-3, Neuropeptide Y 82869-38-3, 2,4-Dienoyl CoA
 reductase 83869-56-1, Colony-stimulating factor 2 85637-73-6, Atrial
 natriuretic peptide 85638-40-0, Polylactosamine branching
 acetylglucosaminyltransferase 86551-03-3, Electron transfer flavoprotein
 dehydrogenase 86933-74-6, Neurokinin A 87683-70-3,
 Pterin-4.alpha.-carbinolamine dehydratase 88402-55-5, Prodynorphin
 90119-07-6, Leukotriene A4 hydrolase 90597-47-0, Peptidylglycine
 .alpha.-amidating monooxygenase 90698-32-1, Leukotriene C4 synthase
 91448-99-6, Cystatin C 92769-12-5, Proliferin 92941-56-5, Serotonin
 acetyltransferase 93443-35-7, Preproenkephalin 93792-73-5,
 Colony-stimulating factor 3 93928-65-5, Amino adipic semialdehyde
 synthase 94716-09-3, Cathepsin K 95567-84-3, Dihydrolipoamide
 transacylase 97089-82-2, 6-Pyruvoyltetrahydropterin synthase
 97501-92-3, Chymase 99085-47-9, Complement decay-accelerating factor
 99194-04-4, Cystatin B 99676-46-7, Neuroendocrine convertase 1
 102484-74-2, Alkylglycerone phosphate synthase 102577-23-1, Neurokinin B
 103370-86-1, Parathormone-related peptide 104118-56-1, Leukotriene A4
 synthase 105913-04-0 106283-10-7, Inositol 1,4,5-triphosphate 3-kinase
 106602-62-4, Islet amyloid polypeptide 106956-32-5, Oncostatin M
 109319-16-6 109489-77-2, Tetranectin 110910-42-4, Cathepsin E
 111694-13-4, Inositol polyphosphate 1-phosphatase 114101-80-3,
 Pro-melanin-concentrating hormone 114949-22-3, Activin 115966-66-0,
 Histatin 1 115966-67-1, Histatin 3 117147-70-3, Amphiregulin
 117628-82-7, Follistatin 117698-12-1, Paraoxonase 119418-04-1, Galanin
 120178-12-3, Telomerase 121797-22-6, Histatin 2 122097-00-1,
 Cyclin-dependent kinase 8 122191-40-6, Caspase 1 122879-69-0,
 Endothelin 2 123626-67-5, Endothelin 1 124861-55-8 125692-40-2,
 Endothelin 3 125978-95-2, Nitric oxide synthase 127407-08-3, Receptor
 tyrosine kinase 127464-60-2, Vascular endothelial growth factor
 128028-50-2, Proteinase-3 128449-51-4, .alpha.1,3-Galactosyltransferase
 130939-66-1, Neurotrophin 3 137061-48-4, Pituitary adenylate

cyclase-activating peptide 138238-81-0, Endothelin converting enzyme 138359-29-2, c-Kit protein tyrosine kinase 138674-26-7, SYK tyrosine kinase 138757-15-0, .alpha.2-Antiplasmin 139466-48-1, Protein C inhibitor 139639-23-9, Tissue plasminogen activator 139639-24-0, Urokinase plasminogen activator 140158-49-2, Hippocampal cholinergic neurostimulating peptide 140208-22-6, CDC25 phosphatase 140208-23-7, Plasminogen activator inhibitor 1 140208-24-8, Tissue inhibitor of metalloproteinase 1 140610-48-6, Matrix metalloproteinase 10 141176-92-3, .alpha.1-Antichymotrypsin 141256-52-2, Matrix metalloproteinase 7 141349-86-2, Cyclin-dependent kinase 2
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

IT 141436-78-4, Protein kinase C 141467-21-2, Calmodulin-dependent protein kinase 141588-27-4, Protein kinase G 141760-45-4, Furin 142008-29-5, Protein kinase A 142243-02-5, Mitogen-activated protein kinase 142243-03-6, Plasminogen activator inhibitor 2 142805-56-9, Topoisomerase II 142805-58-1, MEK kinase 143180-75-0 143375-65-9, CDC2 kinase 144697-17-6, c-Src tyrosine kinase 144940-98-7, Guanylin 145267-01-2, Matrix metalloproteinase 11 145809-21-8, Tissue inhibitor of metalloproteinase 3 146480-35-5, Matrix metalloproteinase 2 146480-36-6, Matrix metalloproteinase 9 146702-84-3, Mitogen-activated protein kinase kinase kinase 147014-96-8, Cyclin-dependent kinase 5 147014-97-9, Cyclin-dependent kinase 4 148047-29-4, TEK receptor tyrosine kinase 148125-60-4, Protease nexin 2 148640-14-6, Protein kinase B 149147-12-6 149885-72-3, Heme-regulated inhibitor of translation 150605-49-5, Palmitoyl-protein thioesterase 151662-20-3, DM kinase 151769-16-3, Metalloproteinase ADAM17 151821-61-3, Ubiquitin B 151821-62-4, Ubiquitin C 152478-56-3, Janus kinase 1 152478-57-4, Janus kinase 2 153190-71-7, Cyclin-dependent kinase 3 154531-34-7, Heparin-binding EGF-like growth factor 154907-66-1, Cyclin-dependent kinase 6 157482-36-5, Janus kinase 3 157857-10-8, Prostatin 161052-08-0, Gene tie protein kinase 161384-17-4, Matrix metalloproteinase 14 169494-85-3, Leptin 169592-56-7, Apopain 169592-62-5, Cyclin-dependent kinase 10 170347-52-1, Gene nsk2 protein kinase 170780-57-1, LIM kinase 175449-82-8, Matrix metalloproteinase 13 179241-73-7, Activin-receptor-like kinase 1 179241-78-2, Caspase 8 180189-96-2, Caspase 9 182372-11-8, Metalloproteinase ADAM9 182372-14-1, Caspase 2 182372-15-2, Caspase 6 182762-08-9, Caspase 4 182938-13-2, Cyclin-dependent kinase 9 182970-56-5, Matrix metalloproteinase 16 185402-46-4, Phytanoyl-CoA hydroxylase 185857-51-6, Neurturin 186207-03-4, Tissue inhibitor of metalloproteinase 4 186270-49-5, Angiopoietin 1 188364-80-9, Matrix metalloproteinase 19 189088-85-5, Caspase 10 189088-86-6, P21-Activated kinase 3 189258-14-8, Caspase 7 192230-91-4, Mitogen-activated protein kinase kinase 4 192465-11-5, Caspase 5 193099-09-1, Metalloproteinase ADAM10 193099-10-4, Metalloproteinase ADAM15 193099-11-5, Metalloproteinase ADAM11 193830-08-9, Growth/differentiation factor 5 194368-66-6, Angiopoietin 2 194554-71-7, Blood-coagulation factors, LACI 194739-73-6, MAPK kinase 6 202420-40-4, Gene STK11 protein kinase 203810-08-6, Matrix metalloproteinase 17 205944-50-9, Osteoprotegerin 207004-87-3, Methionine synthase reductase 208349-50-2, Matrix metalloproteinase 15 214899-28-2 216864-07-2, .alpha.-Synuclein 216864-08-3, .beta.-Synuclein 227184-71-6, Matrix metalloproteinase MT-MMP 227604-60-6, Matrix metalloproteinase MT5-MMP 245359-74-4, Orexin 248259-60-1, Ephrin-A8 receptor kinase 252337-44-3, Metalloproteinase ADAM1 252340-56-0, Metalloproteinase ADAM13 252341-94-9, Metalloproteinase ADAM14 252344-02-8, Metalloproteinase ADAM16 252348-35-9, Metalloproteinase ADAM18 252348-54-2, Metalloproteinase ADAM19 252348-89-3, Metalloproteinase ADAM2 252349-85-2, Metalloproteinase ADAM3A 252350-00-8, Metalloproteinase ADAM3B 252350-19-9, Metalloproteinase ADAM4 252350-77-9, Metalloproteinase ADAM5 252350-84-8, Metalloproteinase ADAM6 252350-91-7, Metalloproteinase ADAM7 252351-00-1, Proteinase, metallo-, ADAM8

- 252351-68-1, Leukotriene C4 synthase 252351-86-3, Matrix metalloproteinase 6 252354-25-9, Gene STK2 protein kinase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9001-62-1, Lipase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (hepatic, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 80449-02-1, Protein tyrosine kinase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (lymphocyte-specific, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9001-77-8, Acid phosphatase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (lysosomal 2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 64-85-7, Deoxycorticosterone
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (receptor, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9025-75-6, Protein phosphatase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (regulatory subunit PPP1R3 and A, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9001-78-9
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (tissue nonspecific TNSAP, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 79747-53-8, Protein tyrosine phosphatase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (type 12, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 158736-49-3, .alpha.-Secretase
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha. and .beta. and .gamma., core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 57285-09-3, Inhibin
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.alpha. and .beta.A and .beta.B and .beta.C subunits, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)
- IT 9002-67-9, Luteinizing hormone
 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (.beta.-subunit, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

Proteins in Reversed-Phase High-Performance Liquid Chromatography
 AU Purcell, Anthony W.; Aguilar, Marie-Isabel; Hearn, Milton T. W.
 CS Centre for Bioprocess Technology Department of Biochemistry and Molecular
 Biology, Monash University, Clayton, 3168, Australia
 SO Anal. Chem. (1999), 71(13), 2440-2451
 CODEN: ANCHAM; ISSN: 0003-2700
 PB American Chemical Society
 DT Journal
 LA English
 CC 9-3 (Biochemical Methods)
 Section cross-reference(s): 6
 AB Reversed-phase high-performance liq. chromatog. (RP-HPLC) is a widely used
 technique for the sepn. of proteins under low pH aquo-org. solvent
 gradient elution conditions, typically carried out at ambient temps.
 These conditions can however induce conformational effects with proteins
 as evident from changes in their biol. or immunol. activities. By
 monitoring the influence of temp. on the **retention** and
 band-broadening **characteristics of proteins**, the role
 of conformational processes in these lipophilic environments can be examd.
 These processes can then be interpreted in terms of a two-state model
 involving a native (N) and a fully unfolded species (U) or more complex
 folding/unfolding models. In the present study, the gradient elution
 RP-HPLC behavior of sperm whale myoglobin (SWMYO) and hen egg white
 lysozyme (HEWL) has been investigated at temps. between 5 and 85.degree.
 with n-octadecyl (C18)- and Bu (C4)-silica reversed-phase sorbents. The
 interaction of these proteins with these reversed-phase sorbents has also
 been examd. in terms of the contributions that the heme prosthetic group
 of SWMYO and the disulfide bonds in HEWL make to the stabilization of the
 native conformation of these proteins in these hydrophobic environments.
 The obsd. interconversions of multiple peak zones of SWMYO and HEWL in the
 presence of C18 and C4 **ligands** have been subsequently analyzed
 in terms of the unfolding processes that these proteins can undergo at low
 pH and at elevated temps. The ability of hydrocarbonaceous
ligands to trap ensembles of partially unfolded conformational
 intermediates of proteins in these perturbing environments has been examd.
 Pseudo-first-order rate consts. have been derived for these processes from
 anal. of the dependencies on time of the concn. of the different protein
 species at specified temps. The relationship of these processes to the
 conformational transitions that these proteins can undergo via molten
 globule-like intermediates (i.e., compact denatured states with a
 significant amt. of residual secondary structure) in soln. has also been
 examd. This study thus further documents an exptl. strategy to assess the
 folding/unfolding behavior of globular proteins in the presence of
 hydrophobic surfaces and aquo-org. solvents, whereby the system parameters
 can potentially affect the preservation of native conformations, and thus
 the function, of the protein under these conditions.
 ST globular protein conformation binding HPLC
 IT **Proteins**, specific or class
 RL: PRP (Properties)
 (globular; probing binding behavior and conformational states of
 globular proteins in reversed-phase high-performance liq. chromatog.)
 IT Adsorption
 Conformational transition
Protein folding
 Reversed phase HPLC
 Reversed phase HPLC stationary phases
 Temperature
 pH
 (probing binding behavior and conformational states of globular
 proteins in reversed-phase high-performance liq. chromatog.)
 IT Myoglobins
 RL: PRP (Properties)
 (probing binding behavior and conformational states of globular
 proteins in reversed-phase high-performance liq. chromatog.)
 IT Conformation
 Secondary structure

(protein; probing binding behavior and conformational states of
globular proteins in reversed-phase high-performance liq. chromatog.)

IT 9001-63-2, Lysozyme

RL: PRP (Properties)

(probing binding behavior and conformational states of globular
proteins in reversed-phase high-performance liq. chromatog.)

RE.CNT 70

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L153 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1998:656835 HCAPLUS

DN 130:35171

TI **Trafficking** of androgen receptor mutants fused to green fluorescent **protein**: a new investigation of partial androgen insensitivity syndrome

AU Georget, Virginie; Terouanne, Beatrice; Lumbroso, Serge; Nicolas, Jean-Claude; Sultan, Charles

CS Institut National Sante Recherche Medicale, INSERM U439, Pathologie Moleculaire Recepteurs Nucleaires, Montpellier, 34090, Fr.

SO J. Clin. Endocrinol. Metab. (1998), 83(10), 3597-3603

CODEN: JCEMAZ; ISSN: 0021-972X

PB Endocrine Society

DT Journal

LA English

CC 9-2 (Biochemical Methods)

Section cross-reference(s): 2, 14

AB The naturally occurring mutations of the androgen receptor (AR), detected in patients with androgen insensitivity syndrome (AIS), are currently analyzed by in vitro assays. Unfortunately, these assays do not always permit the demonstration of a direct relationship between the in vitro activity of the receptor and the severity of the phenotype (in particular, for mutations detected in patients with partial AIS). We recently studied the **trafficking** of wild-type AR, fused to the green fluorescent **protein** (GFP) in living cells. In the present study, we applied this method for the anal. of AR mutants to find out whether it could be a complementary method of investigation of AIS. After construction of the GFP-AR mutant fusion proteins, the androgen-binding **characteristics**, nuclear transfer capacities, and transcriptional activities were evaluated. The nuclear transfer was quantified in the presence of various concns. of dihydrotestosterone (DHT). We studied two mutants assocd. with partial AIS: G743V and R840C. The androgen-binding **characteristics** of both mutants were affected, in comparison with normal AR. Although the affinities were similar, the dissocn. rate of GFP-AR-G743V was twice that of GFP-AR-R840C. In transcriptional assay, both mutants were active only at high concns. of androgen. The nuclear trafficking of the mutants was evaluated by two parameters: 1) the rate of nuclear transfer; and 2) the maximal amt. of receptors imported into the nucleus. At 10⁻⁶ mol/L DHT, the GFP-AR mutants entered into the nucleus in a fashion similar to that of GFP-AR-wt. At 10⁻⁷ mol/L DHT, the rate and maximal degree of nuclear import were both reduced, even more, for GFP-AR-G743V. The difference between mutants was more pronounced at 10⁻⁹ mol/L DHT, because GFP-AR-G743V entered into the nucleus with even slower kinetics. Though the androgen-binding affinity and transcriptional activity assays did not reveal major differences between mutants, the dissocn. rate and the trafficking capacity measurements permitted the activity of the mutants to be differentiated. We obsd. that the nuclear transfer capacities of these mutants are in correlation with the severity of the phenotype. The GFP-AR model provides an opportunity both to observe the dynamics of the hormone/receptor complex in living cells and to study the impact of the **ligand**-binding domain mutation, as opposed to certain in vitro techniques. Because the nuclear import capacity correlates well with the degree of androgen insensitivity, the

- GFP-AR is a useful complementary tool to understanding the phenotype/genotype relationship of AR function in patients with AIS.
- ST androgen receptor mutant fusion fluorescent **protein trafficking** insensitivity syndrome
- IT Androgen insensitivity
Cell nucleus
Intracellular transport
Mutation
Tissue culture (animal)
Transcription (genetic)
(androgen receptor mutants fused to green fluorescent **protein trafficking** and investigation of partial androgen insensitivity syndrome)
- IT Androgen receptors
RL: ADV (Adverse effect, including toxicity); BOC (Biological occurrence); BPR (Biological process); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(androgen receptor mutants fused to green fluorescent **protein trafficking** and investigation of partial androgen insensitivity syndrome)
- IT Green fluorescent **protein**
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(androgen receptor mutants fused to green fluorescent **protein trafficking** and investigation of partial androgen insensitivity syndrome)
- IT 521-18-6, Dihydrotestosterone
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(androgen receptor mutants fused to green fluorescent **protein trafficking** and investigation of partial androgen insensitivity syndrome)

RE.CNT 22

RE

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L153 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1997:112088 HCAPLUS

DN 126:235421

TI Preparation and **characterization** of Sinopak-s-DEAE weak anion-exchange packing for high performance liquid chromatography

AU He, Xiujuan; Wu, Xiaojun; Qiao, Xia; Liu, Guoquan

CS Inst. Chem., Chinese Acad. Sci., Beijing, 100080, Peop. Rep. China

SO Sepu (1997), 15(1), 15-17

CODEN: SEPUER; ISSN: 1000-8713

PB Sepu Jishu Yanjiu Kaifa Zhongxin

DT Journal
LA Chinese
CC 9-3 (Biochemical Methods)
Section cross-reference(s): 16, 66
AB High-performance ion-exchange chromatog. (HPIEC) is extensively used in the sepn. of peptides and proteins, esp. in the biotechnol. process. The principle of sepn. of proteins is based on the changes of pH and salt concn. in the mobile phase for the chromatog. model. A new synthetic method, which uses a catalyst for bonding the diethylaminoethyl group onto homemade macroporous silica spheres (Sinopak-s; sphere size 5 .mu.m and pore diam. 100 nm), was developed in our lab. for application to the scale-up sepn. of biotechnol. target products in China. The Sinopak-s-DEAE weak anion-ion exchange matrix for HPLC was prepd. and **characterized** with various proteins. The pH value and reaction time are discussed for the reaction efficiency of **ligand** to the silica sphere. The coverage of the DEAE **ligand** on the silica surface was 1.6-2.1 .mu.mol/m² for 6 batches of packings. The effects of pH value and salt concn. in the mobile phase upon the **retention** of **proteins** on the DEAE column are also discussed. A bioactivity recovery up to 98% for trypsin was achieved after purifn. with the DEAE column under the chosen chromatog. conditions. The capacity of the matrix for BSA was 80 mg/g. The column was used successfully to sep. a mixt. of several std. proteins under linear gradient elution conditions from 0 to 0.4 mol/L of NaCl in a 50 mmol/L Tris-HCl buffer (pH 7.0) at 1.0 mL/min flow rate and detection at 280 nm.
ST high performance anion exchange chromatog protein; DEAE Sinopak stationary phase protein sepn
IT **Proteins** (general), preparation
RL: PUR (Purification or recovery); PREP (Preparation)
(Sinopak-s-DEAE weak anion-exchange stationary phase for HPLC)
IT Anion-exchange HPLC
(stationary phases; Sinopak-s-DEAE weak anion-exchange stationary phase for HPLC)
IT 188448-85-3P, Sinopak S-DEAE
RL: NUU (Nonbiological use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(Sinopak-s-DEAE weak anion-exchange stationary phase for HPLC)

L153 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1996:609940 HCAPLUS

DN 125:269767

TI Bifunctional Fusion Proteins of Calmodulin and Protein A as Affinity **Ligands** in Protein Purification and in the Study of Protein-Protein Interactions

AU Hentz, Nathaniel G.; Daunert, Sylvia

CS Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055, USA

SO Anal. Chem. (1996), 68(22), 3939-3944

CODEN: ANCHAM; ISSN: 0003-2700

DT Journal

LA English

CC 9-16 (Biochemical Methods)

AB An affinity chromatog. system is described that incorporates a genetically designed bifunctional affinity **ligand**. The utility of the system in protein purifn. and in the study of protein-protein interactions is demonstrated by using the interaction between protein A and the **heat shock protein** DnaK as a model system. The bifunctional affinity **ligand** was developed by genetically fusing calmodulin (CaM) to protein A (ProtA). The dual functionality of protein A-calmodulin (ProtA-CaM) stems from the mol. recognition properties of the two components of the fusion protein. In particular, CaM serves as the anchoring component by virtue of its binding properties toward phenothiazine. Thus, the ProtA-CaM can be immobilized on a solid support contg. phenothiazine from the C-terminal domain of the fusion protein. Protein A is at the N-terminal domain of the fusion protein and serves as the affinity site for DnaK. While DnaK binds specifically to

the protein A domain of the bifunctional **ligand**, it is released upon addn. of ATP and under very mild conditions (pH 7.0). In addn. to obtaining highly purified DnaK, this system is very rugged in terms of its performance. The proteinaceous bifunctional affinity **ligand** can be easily removed by addn. of EGTA, and fresh ProtA-CaM can be easily reloaded onto the column. This allows for a facile regeneration of the affinity column because the phenothiazine-silica support matrix is stable for long periods of time under a variety of conditions. This study also demonstrates that calmodulin fusions can provide a new approach to study protein-protein interactions. Indeed, the ProtA-CaM fusion protein identified DnaK as a cellular component that interacts with protein A from among the thousands of proteins present in Escherichia coli.

ST protein A calmodulin fusion affinity chromatog; **heat**

shock protein DnaK

IT Proteins, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); PROC (Process)

(bifunctional fusion proteins of calmodulin and protein A as affinity **ligands** in protein purifn. and in the study of protein-protein interactions)

IT Calmodulins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(bifunctional fusion proteins of calmodulin and protein A as affinity **ligands** in protein purifn. and in the study of protein-protein interactions)

IT Proteins, specific or class

RL: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)

(A, bifunctional fusion proteins of calmodulin and protein A as affinity **ligands** in protein purifn. and in the study of protein-protein interactions)

IT **Proteins, specific or class**

RL: PUR (Purification or recovery); PREP (Preparation)

(**heat-shock**, DnaK; bifunctional fusion proteins of calmodulin and protein A as affinity **ligands** in protein purifn. and in the study of protein-protein interactions)

IT 56-65-5, 5'-ATP, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(bifunctional fusion proteins of calmodulin and protein A as affinity **ligands** in protein purifn. and in the study of protein-protein interactions)

L153 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1996:555064 HCAPLUS

DN 125:269747

TI Use of a peptide library to **characterize** differential peptide binding specificities of bacterial and mammalian **Hsp70**

AU Williams, K. P.; Evans, D. M.; Rosenberg, S.; Jindal, S.

CS PerSeptive Biosystems Inc., Framingham, MA, USA

SO Tech. Protein Chem. VII, [Symp. Protein Soc.], 9th (1996), Meeting Date 1995, 57-64. Editor(s): Marshak, Daniel R. Publisher: Academic, San Diego, Calif.

CODEN: 63GTAE

DT Conference

LA English

CC 9-16 (Biochemical Methods)

AB A peptide library contg. a random mixt. of peptides of different lengths and sequences and having an affinity for mammalian **hsp70** or its bacterial counterpart, Dna K, was screened. The results showed that although mammalian and bacterial **hsp70** are highly conserved proteins, they differ in their specificity for binding peptides. The screening approach should be useful for obtaining **ligands** that differentiate between closely related targets.

ST peptide binding specificity bacterial mammalian **hsp70**

- IT **Proteins, specific or class, properties**
 RL: PRP (Properties)
 (characterization of differential peptide binding specificities of bacterial and mammalian **Hsp70**)
- IT **Proteins, specific or class**
 RL: PRP (Properties)
 (hsp 70, characterization of differential peptide binding specificities of bacterial and mammalian **Hsp70**)

L153 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1994:3172 HCAPLUS

DN 120:3172

TI Proteins forming complexes with chaperones and **ligands** thereof, fragments thereof, preparation thereof and biological uses thereof

IN Lebeau, Marie-Claire; Massol, Nelly; Renoir, Michel; Radanyi, Christine; Mornon, Jean Paul; Callebaut, Isabelle; Baulieu, Etienne Emile; Chambraud, Beatrice

PA Institut National de la Sante et de la Recherche Medicale (INSERM), Fr.

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C12N015-12

ICS C12N015-63; C12N001-21; C07K013-00; C12P021-08; C12Q001-68

CC 6-3 (General Biochemistry)

Section cross-reference(s): 1, 3, 9

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9318146	A2	19930916	WO 1993-FR219	19930304
	WO 9318146	A3	19931111		
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2688227	A1	19930910	FR 1992-2612	19920304
PRAI	FR 1992-2612		19920304		

AB The cDNA for 59 kDa rabbit protein HBI, which forms a complex with **hsp90** and is found in steroid receptor complexes, is cloned and sequenced. This cDNA may be used to identify DNA encoding immunophilins, or proteins which contain domains homologous to FK506-binding domains, calmodulin-binding domains, or domains with rotamase activity. Antibodies to the HBI protein may be used to detect these proteins also. The cDNA for the 458 amino acid protein HBI of rabbit liver was cloned. The protein contains 3 domains with sequence homol. to human FKBP. The HBI cDNA was used in Southern and Northern analyses of various organisms and tissues.

ST protein HBI rabbit cDNA sequence; **hsp90** complex HBI protein steroid receptor; FK506 binding domain HBI protein

IT **Protein sequences**
 (of 59 kDa protein HBI of rabbit)

IT Calmodulins
 RL: BIOL (Biological study)
 (protein binding, rabbit protein HBI contg. domain homologous to)

IT Antibodies
 RL: BIOL (Biological study)
 (to rabbit protein HBI, detection of immunophilins in relation to)

IT Deoxyribonucleic acid sequences
 (complementary, for 59 kDa protein HBI of rabbit)

IT Phosphoproteins
 RL: BIOL (Biological study)
 (**hsp 90**, rabbit protein HBI binding to, characterization of and cloning of cDNA for)

IT Antibodies
 RL: BIOL (Biological study)
 (monoclonal, to rabbit protein HBI, detection of immunophilins in relation to)

- IT 147015-34-7, Protein HBI (rabbit 59 kDa)
RL: PRP (Properties)
(amino acid sequence of, FK506-binding domains in)
- IT 142693-60-5, DNA (rabbit 59 kDa protein HBI cDNA and 3' flank)
151616-93-2
RL: PRP (Properties)
(nucleotide sequence of)
- IT 104987-11-3, FK-506
RL: BIOL (Biological study)
(protein binding domain for, rabbit protein HBI contg. homologous)
- IT 56-65-5, ATP, biological studies 86-01-1, GTP
RL: BIOL (Biological study)
(protein binding, rabbit protein HBI contg. domain homologous to)
- IT 95076-93-0, Rotamase
RL: BIOL (Biological study)
(protein with activity of, rabbit protein HBI contg. domain homologous to)
- L153 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2001 ACS
AN 1992:37230 HCAPLUS
DN 116:37230
TI Hydrophobic interaction chromatography for the purification of a mycobacterial **heat shock protein** of relative molecular mass 60 000
AU Schoel, Bernd; Kaufmann, Stefan H. E.
CS Dep. Immunol., Univ. Ulm, Ulm, W-7900, Germany
SO J. Chromatogr. (1991), 587(1), 19-23
CODEN: JOCRAM; ISSN: 0021-9673
DT Journal
LA English
CC 9-3 (Biochemical Methods)
Section cross-reference(s): 10
AB Chromatog. with **ligands** of medium hydrophobicity, such as phenyl-Sepharose, bound too strongly to be used for the purifn. of the title recombinant **heat shock protein**. Butyl-Sepharose, with weak hydrophobicity, allowed binding and elution with decreasing concns. of (NH₄)₂SO₄, but only alkyl-Superose allowed sepn. of 2 similar proteins from the Escherichia coli clone expressing the recombinant **heat shock protein** (relative mol. mass 60,000) of Mycobacterium bovis BCG. The binding parameters of recombinant human **heat shock proteins** of relative mol. mass 60,000 and 70,000 indicate the phenyl-Sepharose also binds too strongly for the sepn. of these 2 **heat shock proteins**.
ST Mycobacterium **heat shock protein** purifn;
hydrophobic chromatog **heat shock protein**
IT Mycobacterium BCG
(60,000-mol.-wt. **heat shock protein** of, purifn. of, by hydrophobic interaction chromatog.)
IT **Proteins, specific or class**
RL: PUR (Purification or recovery); PREP (Preparation)
(hsp 60, purifn. of, of human and mycobacteria by hydrophobic interaction chromatog.)
IT **Proteins, specific or class**
RL: ANST (Analytical study)
(hsp 70, purifn. of human, by hydrophobic interaction chromatog.)
IT Chromatography, column and liquid
(hydrophobic, of **heat-shock proteins**, of human and mycobacteria)
IT 9012-36-6D, Agarose, crosslinked, alkyl ethers 67674-78-6 72980-05-3
RL: ANST (Analytical study)
(stationary phase, in purifn. of **heat-shock proteins** by hydrophobic interaction chromatog.)

=> d his

(FILE 'HOME' ENTERED AT 11:28:32 ON 16 FEB 2001)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 11:29:19 ON 16 FEB 2001

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      E CHIEZ R/AU
      E HEDLEY M/AU
L1      28 S E3,E6,E8
      E HSU C/AU
L2      713 S E3-E34
      E HSU CHARLES/AU
L3      65 S E3-E15
      E URBAN R/AU
L4      28 S E3,E7
L5      51 S E29,E34,E35
      E CHICZ R/AU
L6      48 S E4-E6
L7      891 S L1-L6
L8      1 S L7 AND TAG?
L9      78 S L7 AND (PROTEIN# OR PEPTIDE# OR POLYPEPTIDE#)/CW
      E PROTEIN/CT
      E PROTEINS/CT
      E E3+ALL/CT
L10     37 S L7 AND E1+NT
L11     0 S L7 AND E2
L12     17 S L7 AND E3
      E PROTEINS/CT
      E E4+ALL/CT
L13     3 S L7 AND E1
L14     78 S L9-L13
      E LIGAND/CT
      E E35+ALL/CT
L15     2 S E1+NT/CT AND L7
      E LIGAND/CW
L16     2 S E3,E4 AND L7
      E RECEPTOR/CW
L17     20 S E3,E4 AND L7
L18     43 S L7 AND (MHC OR MAJOR(S)HISTOCOMPAT?(S)COMPLEX?)
L19     20 S L7 AND HISTOCOMPAT?(S)COMPLEX?
L20     78 S L9,L10,L12,L13,L14
L21     105 S L17-L19,L20
L22     2 S L15,L16 AND L21
L23     21 S LIGAND AND L7
L24     15 S L23 AND L21
L25     15 S L22,L24
L26     4090 S CHAPERON#
L27     3533 S CHAPERONIN#
L28     461 S CALNEXIN#
L29     3385 S MANNOSIDASE
L30     606 S N GLYCANASE
L31     958 S BIP
L32     6896 S GRP94 OR GRP96 OR HSP100 OR HSP60 OR HSP65 OR HSP70 OR HSP90
L33     90 S "E2" UBIQUITIN# (S) CARRIER(S)PROTEIN
L34     157 S "E3" UBIQUITIN# (S) LIGASE
L35     17 S UNFOLDASE
L36     2920 S TRAFFIC? (S) PROTEIN
L37     4936 S RETENTION(S)PROTEIN

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FILE 'REGISTRY' ENTERED AT 11:55:15 ON 16 FEB 2001

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L38     4 S 37211-66-8 OR 83534-39-8 OR 74812-49-0 OR 140879-24-9
      E UNFOLDASE/CN

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FILE 'HCAPLUS' ENTERED AT 11:56:17 ON 16 FEB 2001

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L39     2862 S L38

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L40 3556 S PROTEASOME OR (MULTICATALYTIC OR MULTI CATALYTIC) (S) (PROTEASE
 L41 1263 S GLYCOAMIDASE OR GLYCOPEPTIDASE OR N GLYCOSIDASE OR PGNASE F
 L42 247 S UBIQUITIN# (S) "E3" (S) LIGASE
 L43 497 S UBIQUITIN# (S) PROTEIN (S) LIGASE
 L44 58 S UBIQUITIN# (S) PROTEIN (S) (SYNTHETASE OR SYNTHASE)
 L45 28954 S L26-L37,L39-L44
 L46 7 S L45 AND L7
 L47 6 S L46 AND L21-L25
 L48 5 S L47 AND L9
 L49 2 S L48 AND L15,L16,L23
 L50 3 S L22,L49
 L51 12 S L25 NOT L50
 L52 9 S L51 NOT (RETINOID OR INFARCTION)/TI
 L53 12 S L50,L52

FILE 'HCAPLUS' ENTERED AT 12:05:39 ON 16 FEB 2001

L54 658 S CALRETICULIN#
 L55 4406 S HSP() (100 OR 60 OR 65 OR 70 OR 90 OR 25)
 E HEAT SHOCK/CT
 E HEAT-SHOCK/CT
 L56 4091 S E26+NT/CT
 E E26+ALL/CT
 L57 5451 S E4-E7
 L58 4416 S (HEAT SHOCK PROTEIN#) (S) (100 OR 60 OR 65 OR 70 OR 90 OR 25)
 L59 3815 S L56,L57 (L) (100 OR 60 OR 65 OR 70 OR 90 OR 25)
 L60 751 S GLUCOSE REGULAT? PROTEIN
 L61 86 S (L60 OR GRP) (S) (94 OR 96)
 L62 31091 S L45,L54,L55,L58,L59,L61
 L63 8 S L7 AND L62
 L64 7 S L63 AND L21
 L65 2 S L64 AND LIGAND
 L66 5 S L64 NOT L65
 L67 20 S L7 AND P/DT
 L68 3 S L67 AND L53,L63
 L69 17 S L67 NOT L68
 L70 7 S L18,L19 AND L68,L69
 L71 7 S L68,L70
 L72 10 S L53 NOT L71
 L73 7 S L18,L19 AND L72
 L74 4 S L73 AND HLA
 L75 11 S L71,L74
 L76 3 S L73 NOT L75
 L77 14 S L75,L76

FILE 'BIOSIS' ENTERED AT 12:26:08 ON 16 FEB 2001

L78 31 S E3,E5,E6
 E CHICZ R/ AU
 L79 26 S E3,E6,E9
 E HEDLEY M/AU
 L80 1081 S E3-E35
 L81 1 S E55
 E URBAN R/AU
 L82 62 S E3,E8
 E URBAN ROBERT/AU
 L83 22 S E3,E5
 L84 1202 S L78-L83
 L85 505 S L84 AND (00520/CC OR CONFERENCE/DT)
 L86 532 S L84 AND (CONGRESS? OR CONFERENCE OR POSTER OR SYMPOS? OR MEET
 L87 27 S L86 NOT L85
 L88 20 S L87 NOT ARTICLE/DT
 L89 13 S L88 NOT AB/FA
 L90 9 S L89 AND (SYMPOS? OR CONGRESS OR CONFERENCE OR MEETING OR ASSE
 L91 532 S L85,L86,L90
 L92 9 S L91 AND LIGAND
 L93 69 S L91 AND (PROTEIN OR PEPTIDE OR POLYPEPTIDE OR HSP OR GRP)

L94 239 S L91 AND (10064 OR 10054)/CC
L95 0 S L91 AND TAG?
L96 5 S L91 AND PROFIL?
L97 249 S L93,L94
L98 1 S L97 AND L62
L99 4 S L97 AND MHC
L100 14 S L97 AND HISTOCOMPAT?
L101 14 S L99,L100
L102 12 S L101 NOT (TRANSGENIC OR SPLICE)/TI

FILE 'BIOSIS' ENTERED AT 12:36:57 ON 16 FEB 2001

FILE 'WPIX' ENTERED AT 12:37:26 ON 16 FEB 2001

E WO200009654/PN

L103 1 S E3

FILE 'WPIX' ENTERED AT 12:38:07 ON 16 FEB 2001

L104 28008 S (B04-C01 OR C04-C01 OR B04-N01 OR C04-N01 OR B04-N02 OR C04-N
L105 1842 S L104 AND LIGAND
L106 1104 S L105 AND (B04-K01 OR C04-K01 OR D05-H09 OR D05-H10)/MC
L107 874 S L105 AND C12N/IC
L108 1415 S L106,L107
L109 5416 S L104 AND (M423(P)N102(P)Q233)/M0,M1,M2,M3,M4,M5,M6
L110 703 S L104 AND (M423(P)N104(P)Q233)/M0,M1,M2,M3,M4,M5,M6
L111 695 S L105 AND L109,L110
L112 1462 S L108,L111
L113 23 S L112 AND L26-L37,L40-L44,L54
L114 7 S L112 AND L55,L58,L61
L115 37 S L112 AND (MHC OR HISTOCOMPAT?(S)COMPLEX)
L116 60 S L113-L115
L117 59 S L116 NOT L103
L118 44 S L117 AND RECEPTOR
L119 14 S L118 AND (LIGAND OR HEAT SHOCK PROTEIN OR HISTOCOMPAT? OR SIN
SEL PN 6 8 13 14
L120 4 S E1-E15
L121 15 S L117 NOT L118
L122 11 S L112 AND LIGAND (S)PROFIL?
L123 98 S L112 AND LIGAND (S) CHARACTERI?
L124 3 S L122 AND L123
L125 8 S L122 NOT L103,L124
L126 12 S L112 AND HEAT(S)SHOCK(S)PROTEIN
L127 12 S L112 AND HSP?
L128 0 S L112 AND GLUCOSE REGULAT? PROTEIN
L129 7 S L112 AND GRP?
L130 18 S L126,L127,L129 NOT L103,L120

FILE 'HCAPLUS' ENTERED AT 13:10:02 ON 16 FEB 2001

L131 34622 S L26-L37,L39-L44,L54-L62
L132 1257 S L131 AND LIGAND
L133 684 S L132 AND RECEPTOR
L134 1 S L133 AND COMPUTER APPLICATION+NT/CT
L135 2 S L133 AND DATABASES+NT/CT
L136 0 S L133 AND COMPUTERS+NT/CT
L137 0 S L133 AND COMPUTER PROGRAMS+NT/CT
L138 1 S L133 AND COMPUTER PROGRAM+NT/CT
L139 3 S L134-L138
L140 127 S 9/SC,SX AND L132
L141 4 S L140 AND PROFIL?
L142 34 S L140 AND CHARACTER?
L143 95 S L140 AND PROTEIN#/CW
L144 25 S L141,L142 AND L143
L145 24 S L144 NOT L7
L146 13 S L145 NOT CHROMATOG?/CW
L147 13 S HEAT SHOCK PROTEIN AND L140
L148 3 S L146 AND L147
L149 12 S L147 NOT L7

L150 22 S L146,L148,L149
SEL DN 2 22 14 15 16 19 20 21
L151 8 S E16-E23
L152 14 S L150 NOT L151
L153 16 S L139,L152 NOT L7

FILE 'HCAPLUS' ENTERED AT 13:18:55 ON 16 FEB 2001

E US98-133094/PN
E US98-133094/AP, PRN
L154 1 S E4
E US98-96291/AP, PRN
L155 1 S E4
E US99-135728/AP, PRN
L156 1 S E4
E WO99-US17680/AP, PRN
L157 1 S E3,E4
L158 1 S L154-L157